ANATOMY NEET PG - 2018 Handwritten Note

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Subject: Anatomy

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SUPERIOR EXTREMITY

The Pectonal Region

Cryclate Mude

JL

Pectoralis Major

Medial 2/3rd of the claricle;

Manubrium & Body of sterenum;

2nd-6th costal coutinge;

External Oblique afoneyrasis;

Muscle libre cross in lette

"X" eq => Pectoralis Major!

Stemodeidomastold;

Massera.

Incertion

Origin >

Lateal libol Bicipital grove of Humeru

Adduction Action

Flexion

Medial Rotation (a) the Shoulder joint

 \Rightarrow N. Supply

Medial & Lateral Pectoral Nerve (compraise/Hybrid Muc

Blood supply

(3)

S (

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. Superior thoracic A.

Thoraco acromial A.

Lateral thoracic A (-> Branches of Axillary A.

Perproting brancha of internal thoracic A Anterior interostal Account

M/c mucle to be amgenitally about

Pectonalis Major (Poland Syndrame) (Stemocostal Part).

Rectinalis Majori

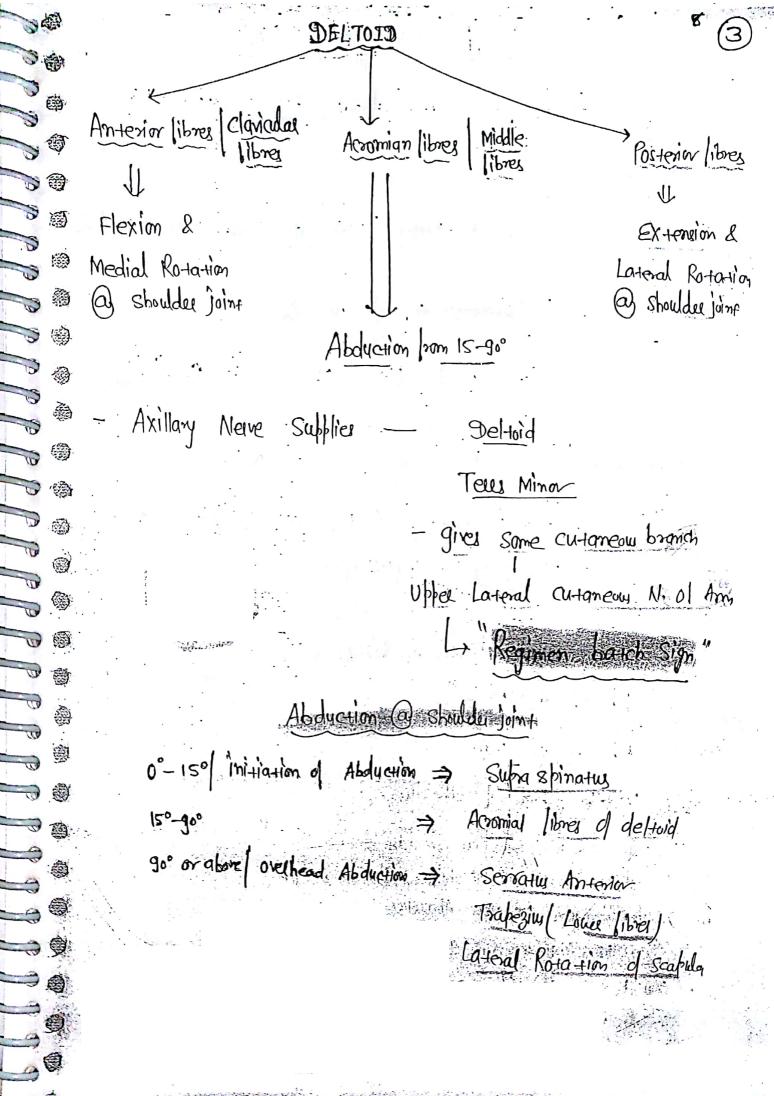
Flexor Pollicis Brevs - Superlical Reac

2 Dock hoad

Flexor digitarym probadus Bagchills

Lessel tubercule of	Hymeny > Subscapularis" Muscle attaches
	1
•	Medial Rotation (a) Shoulder joint
Greater tubercle d	Hymely =>
O Supraspinatus >.	Abduction (0° to 15°)
2 Infraspinatu >	2 Lateral Rotation
9 coracofurneral Ligament	
Forgotten Musc	le of Rotator all > Subscapulation
Lateral lib of Bicipita	I groove > Pectoralis Major
Medial lib of Bioipita	I grouve > Teres Major Attaches
9n the V Bicipital	grove > · Lattismus dorsi
	Long head of biceps breachil The
	Synovial Sheath of Shoulderjoint
	Asconding branch of American
	chamber humonal throng
Rotator cult =	Sub Scapularie
	In 199 spinatu
	Tem Monor Subrachnotu (Mic mucle to be damaged in Rolaw Cill)
	Cide Cide Cide Cide Cide Cide Cide Cide

A CAMP OF THE PORT OF SENTING OF



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SERRATUS ANTERIOR (Boxel Muscle)

Arises from the lateral aspect of upher 8 Ribs Origin as digitation

aspect Medial border of the Scalpula Insection

Protection of Scalula Action Li it Mean "Abduction"

N. Sunta. Long House New N. to servatur America

Counging of Scapula is d+ palaysis of => Ø.

Serratus Anterior (on attempting Movement)

Trafezing (a) Rest)

Ketnaciam of Scatula is done by ! =>

Rhomboides Minor

Rhomboides Major

Middle fibres of Trapesius.

True about Abduction @ shoulder joint-Musculatendinous cult stabilizes Shoulder Joint

Supraspinatus Initiates Abduction

Serratus Amerior de Trafezius also halb in Abduction

Multipermate deltoid clavicular liber & Main Abducta

Axillary N mjny that No elleg on Abduction

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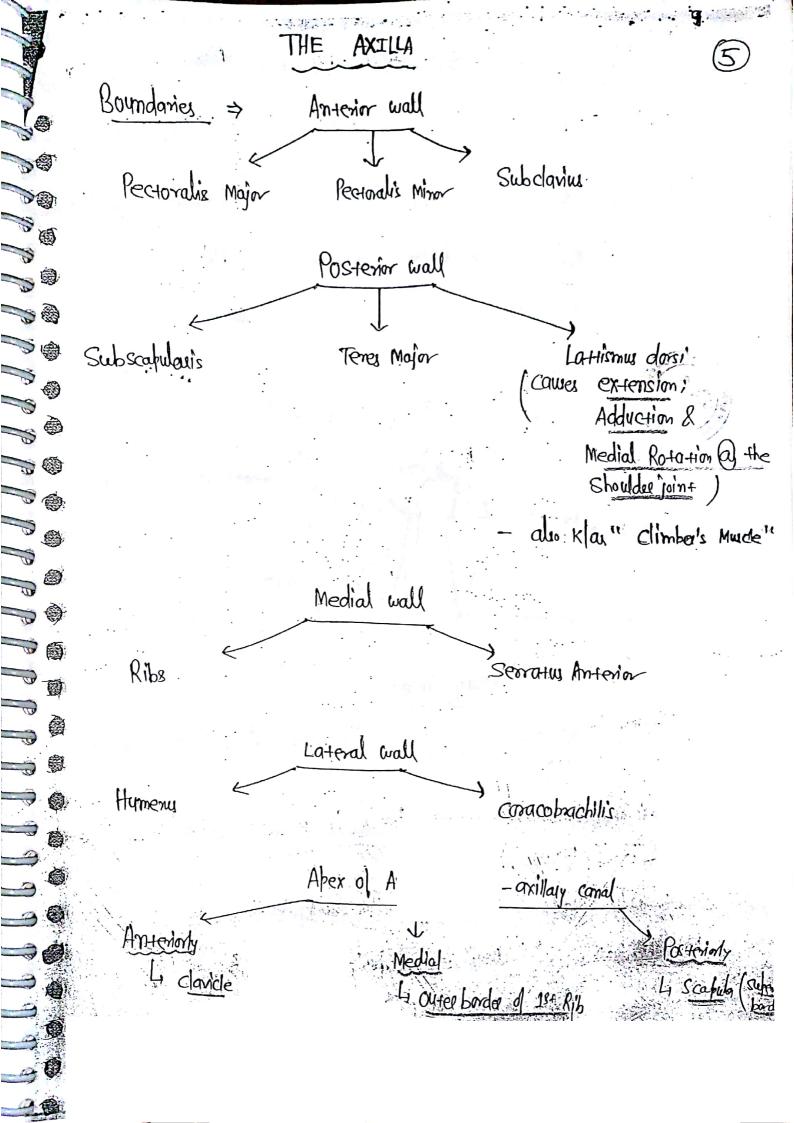
Structule Lying in Delto-bectoral groove Cellulicavein ilio-proces groove > Strycture the. Tracheo-endload grove > Reament laying at Neve Structure Lying in the Cephalic vein DVA => Dosal venous Ar. + Basilic vein cepholic vein Formed by joining Anatomical Snull box. Rose in the Lies in adello decimal groove Pierces the day he Drainy into the Avilla Baillic vein formed by Joining of Medial end to diviso Metomore vehi Vene comitant of a relation or and the bradial action to form - Dxillay vely.

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Clavi-personal fasa'a
- begins from the clavicle & inserted into the Axilla;
- encloses 2 Muscle - Subclaving
Pectoralis Minor
- Palt of Jascia blow Subclavius & Pectoralis Minor is -
Klay " - Costo - Caracold Ligament"
· Part blu Pectoralis the axilla is klay
"Suspensory Ligament o
- derived from "Costo cora coid Ligament"
Structure piercing the davi-bectoral bacia : Cephalic vein
clavice. Thoraco-acromial Artery
> costo conquid Ligament Lateral Pectoral Nerve
ϕ ϕ ϕ ϕ
Suspensory Ligament of Amilla
Axilla QB Subdavius protects underlying brachial plexus &
Axilla 88 Subdavius protects underlying brachial plexus & Subclavian vessels from a boxon official elexus & Coraco-clavicular eligament > two pasts
conside (Medial) Professide (Lateral)
The weight of when limb is transmitted to the medial 2/3rd
of the clavicle & then to the axial skeleton, through coraco-claviallas
Liganent.

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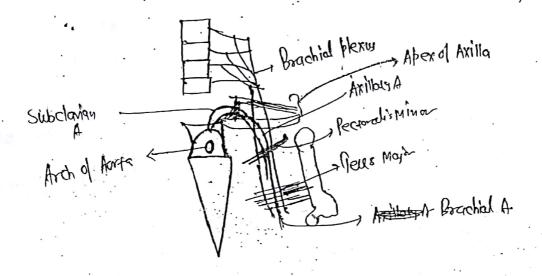


Axillary A. 18 divided linto 3 parts by => Rectoralis Minor muches

Subclavian A. 18 divided into 3 parts by => Scalence Anterior Muches

Maxillary A. 18 divided into 3 parts by => Lateral Ptergoid Made

Lingual A. is divided into 3 parts by > Hyoglossus mucle



Axillary Artery

antimulation of the Subclavian Artery at outer border of the 1st Rib

Constitute russ fractual Arreny below the lower border

Of Teres Major.

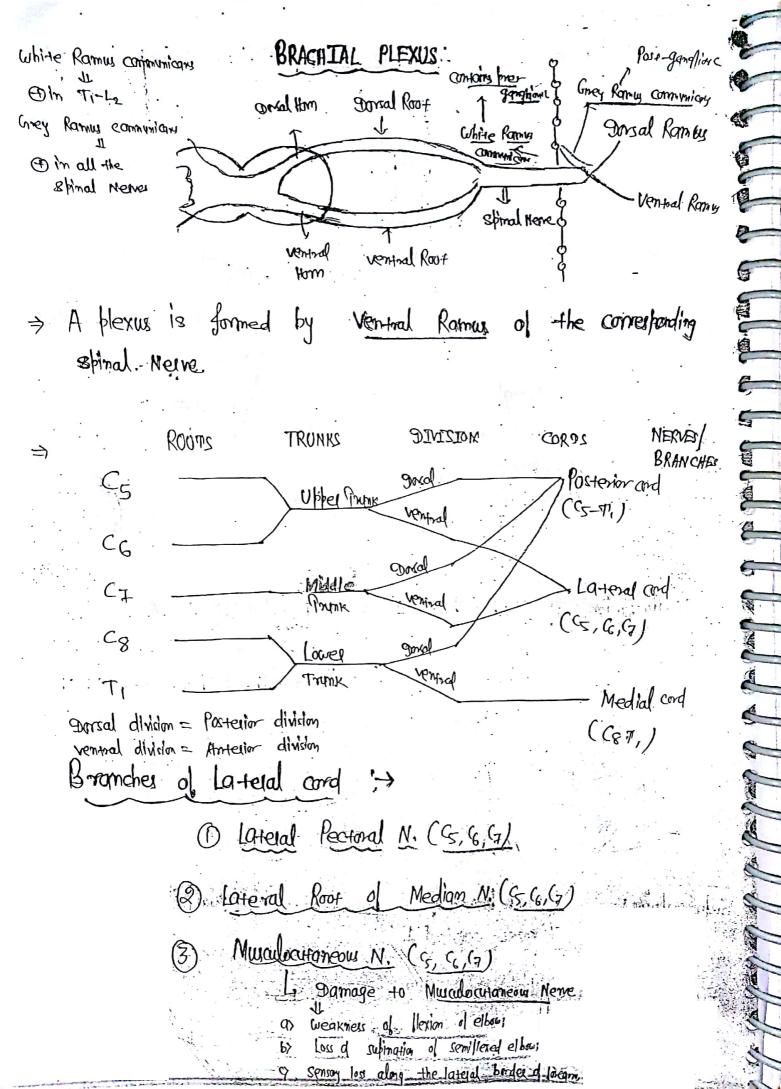
Divided into 3 parts by Pectoralis Minor Superior thoracic A

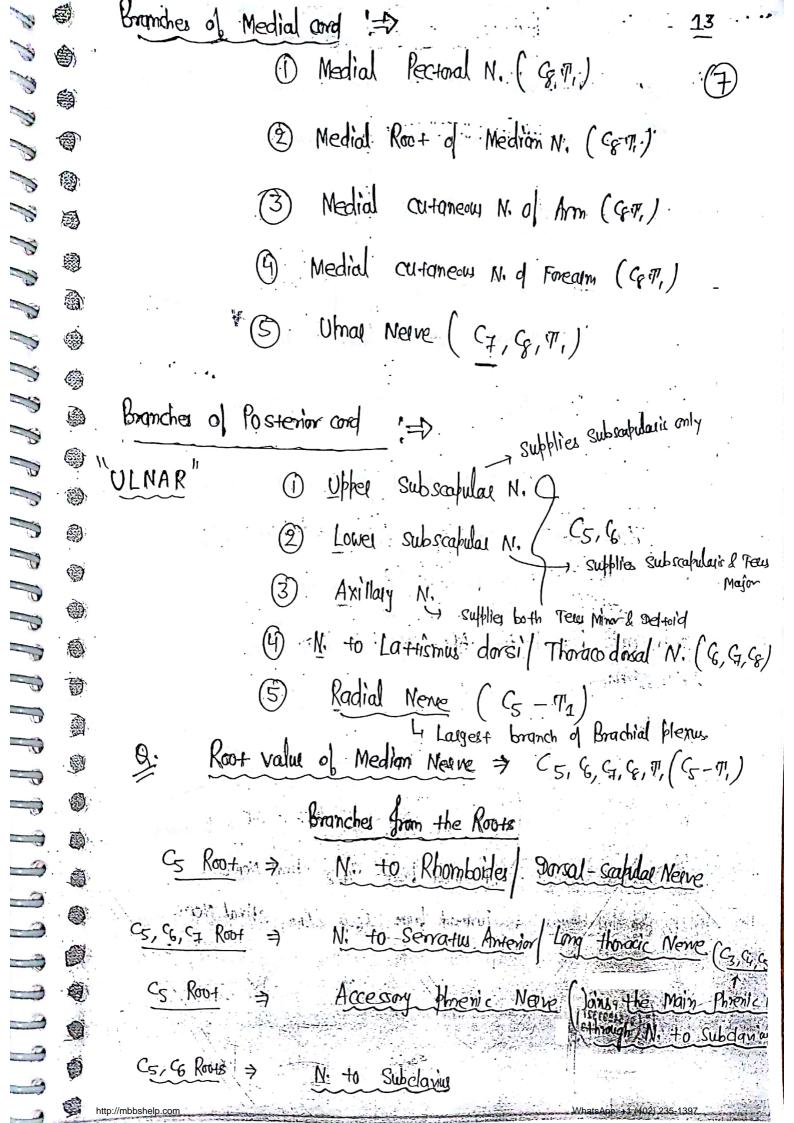
(chief A sufflying the beaut)

Thoracoac romial A: WhatsApp +1 (402) 235-1391

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Anterior Circumlex Hymeral A. T. Both, lorm Amos tomosis Posterior circumilex Humeral A. I ground sugical Subscapulae A. It gives branches Subantular . Circumilex scapular A. Passes through wher A Store & takes Pour Amaziamosis on the dosal aspect of Scapula, Continuation of Subscapular A. Thomacodonsal A. Accompanies the thorocodoral NA/NIA Anastomosis on the dosal Aspect of Scapula. Subclavian Axillary 15+ Pal+ Suprascapular A Subscatular circumiler south Deep branch of Transverse celviced A





Branches from Upper trunk

- 1) Supra Scapular Newe supplies supraspinatus & Intraspinatus
- 2) N. to Subclaving (occasionally from Roots of Cs, C6)
- * ROOHS; +runks; & divisions are > Subractavioular;

Lies in Posterior triangle of the Neck between the Scalenus America & Scalenus Medius.

Total and

1-1-4

5

P. M. J. J. J.

* Cords & Neaves are > 9 monadavirular

Lies in the Axilla around the axillary arresy.

K Cords are present in the 1st & 2nd part; News are present in 3rd part, of Axillary Artery.

* cords are placed in Affecto their Name in 2nd bart of Axillary artery.

Erb's bolint 1 = C5

C6

Erb's bolint N. to Subdaving

* Pre-lixed Brachial plexy => Formed from 4-8 8pinal Nerve

* Post-lixed Brachial blexus => Formed from Gg Pag spinal Nerve

FRONT OF THE ARM FRONT OF THE BRACHIUM
Muscles => 1. Bicels brachii Short head - Arises from conacci brown along with Long head conacobrachilis
Arises from Supraglenoid studiete of. Scapula.
gnoetim => Posterior aspect of Radial +wheresity
N supply > Musculocutaneous Nerve (C5, C6)
No+CA
Action => Submator @ Radio ulma joint
Submation in extended elbow. Flexion a elbow joint
Subination in Nexed elbow Flexion @ Shoulder Joint Bials brachi
2. Brachialis > Arises from the Shaft of humanus below th
inseltion of Covacobrachilis
Insertion => Uhnal tuberosity.
N. Suffly => Medial hall > Musalo cutaneou N. (5,6)
Lateral hall > Radial N. (G., Co)
Action - Chief lexon of the elbow Joints

0

图

3: Coracobractivitis > Arises non the coracoid process

along with the 8hort head of biops

brachii.

Insertion => Medial aspect of middle of shalt of the

N. Supply => Musculo autonomy Nerve (C5, C6, C7)

Action => weak blesons of the shoulder joint.

* Paralysis after injury to \$,6 except => Coracobrachilis

Muchocutaneous Neive

Branch of Lateral cord of Brachial Plexus.

brt. on the Lateral aspect of 17rd part of Axillary A.

- pierces the coracobractialis.
- Lies blu biens & Brachialis.
- Countinue as the Lateral Cutamery N. of Foregram.

ERB'S PARALYSTS

- gnilly to the upper trunk

N. Roots Involved => C5, C6

- Never muched > Axillary N

Musalo an areon Mi Subrastafila Mi

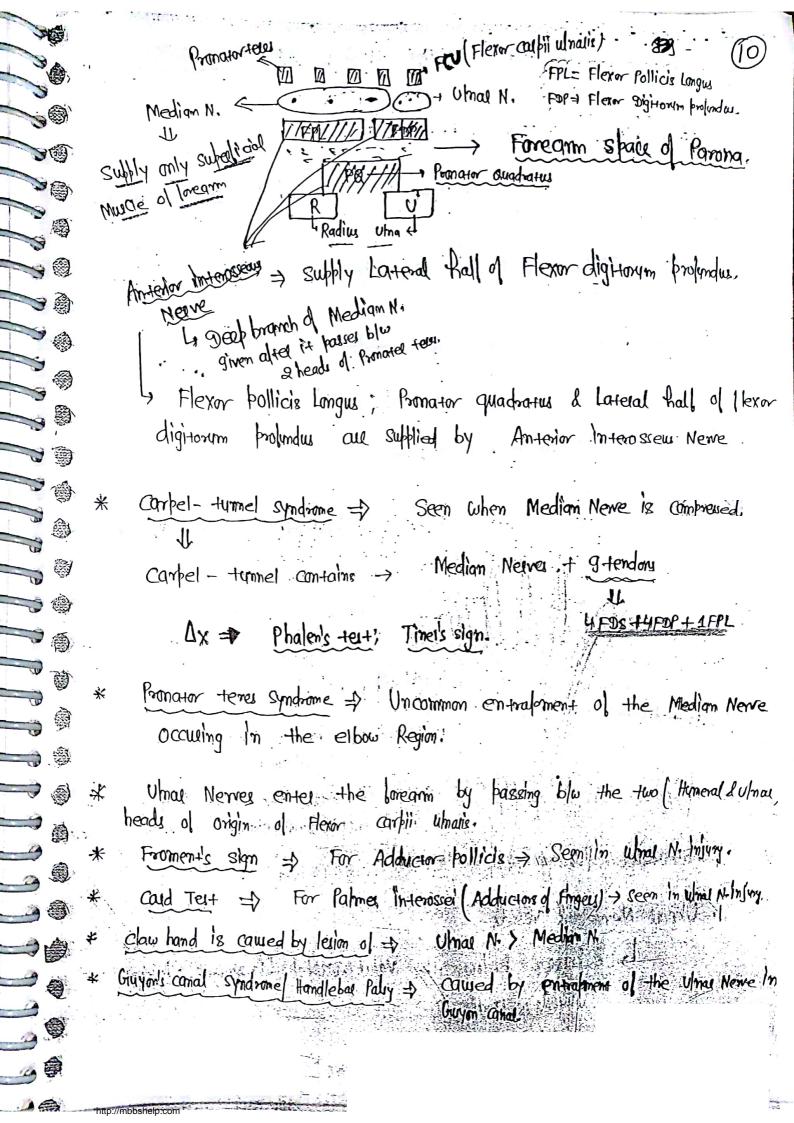
N. 40 Sub clavius

FRONT OF THE FOREARM
SUPERFICIAL MUSCLE '> 1. Promator tells
origin of all 5 Mudes Superficial head seed seed
are from Medial estandyke Humeral chead Ulmar head
Median N. Passes blw two hands.
Uhnal A. Passes deep to the deep head.
"Deep head separates Median N. from Ulmar A.
2. Flexor Cartii Radialis
Causes Flexion & Abduction @ const joint.

Palmais Longus hand as Con-timues digitarum Superlicializ Hexor

Flexor Carpil Ulmatic Lexion & Adduction @ const Joint,

Pollicis longing - Ansa from Radius Flexor Gntermediate Mude 2. Flerr digitorym Prolunday - Inter Iron Uma



FLEXOR RETINACULUM & CARPEL TUNNEL

Ulman bursa encloses the tendon of

Ly Flexor digitorym subolivator & Profunday.

Continues & little Angers.

Radial bursa encloses the tendon of

Ly Flexon pollicis Longuy

Continues c thamb.

Radial buses

* Inlection of thumb & Index flager -> 8 preads to
thenas spaces

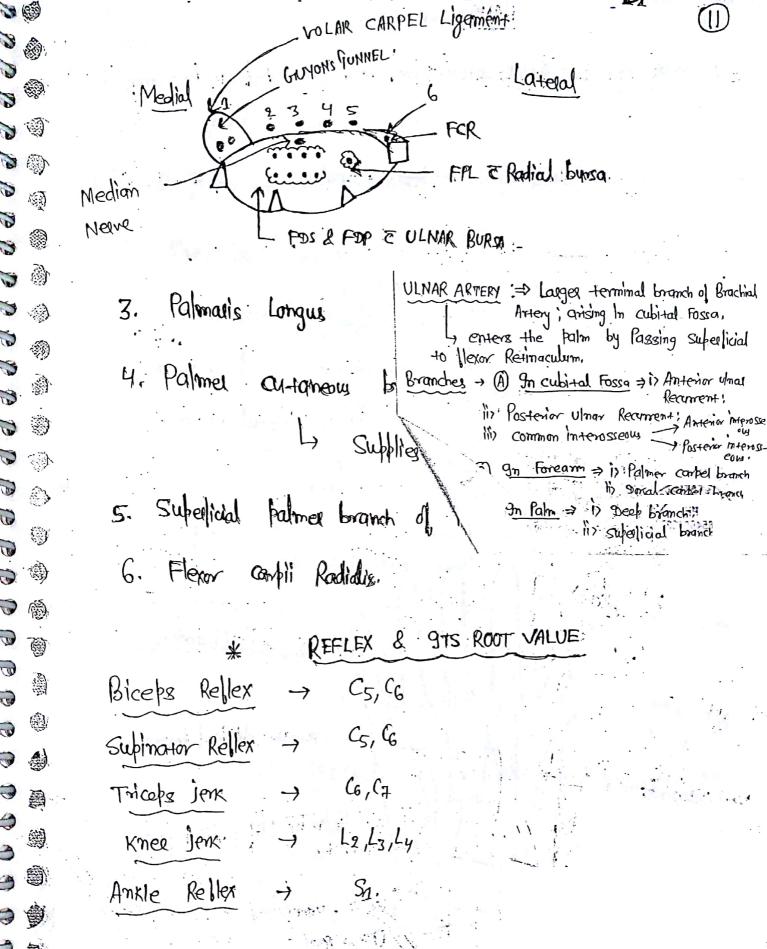
* Inlection of Middle: Ring & Little linger ->
8 preads to Mid falmas spaces

Separate Symovial sheath for linger

Structures passing Above Flexor Retingailum &

1. Ulmal Nerve & vessels
4 passes below the vola carpel Ligamont through

21° Patimer Cutaineous branch of Ulnar News Li Subplier the skin over the hybotheral contracte



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3 63

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CHAH

SUPERFICIAL PALMAR ARCH > formed by Superficial branch of Ulnau Array.

Completed by Superlicial Palmer bounds of Radial A:

- Lies above the Hexor tendom (FDS; FDP).
- Lies @ the level of Distal pahmal crease.
- Branches > 17 3 Common digital branches!

ii> 1 Proper digital branches.

Supplies > Medial 3 & Angers.

A. Princips

A. Princips

A. Princips

Common digital branches

Maracarpel A.

Suberlicial br., 9 of Umar A.

Gruyon's tunnel

Ulmar A.

Radial A. 4 enter via Snall Box.

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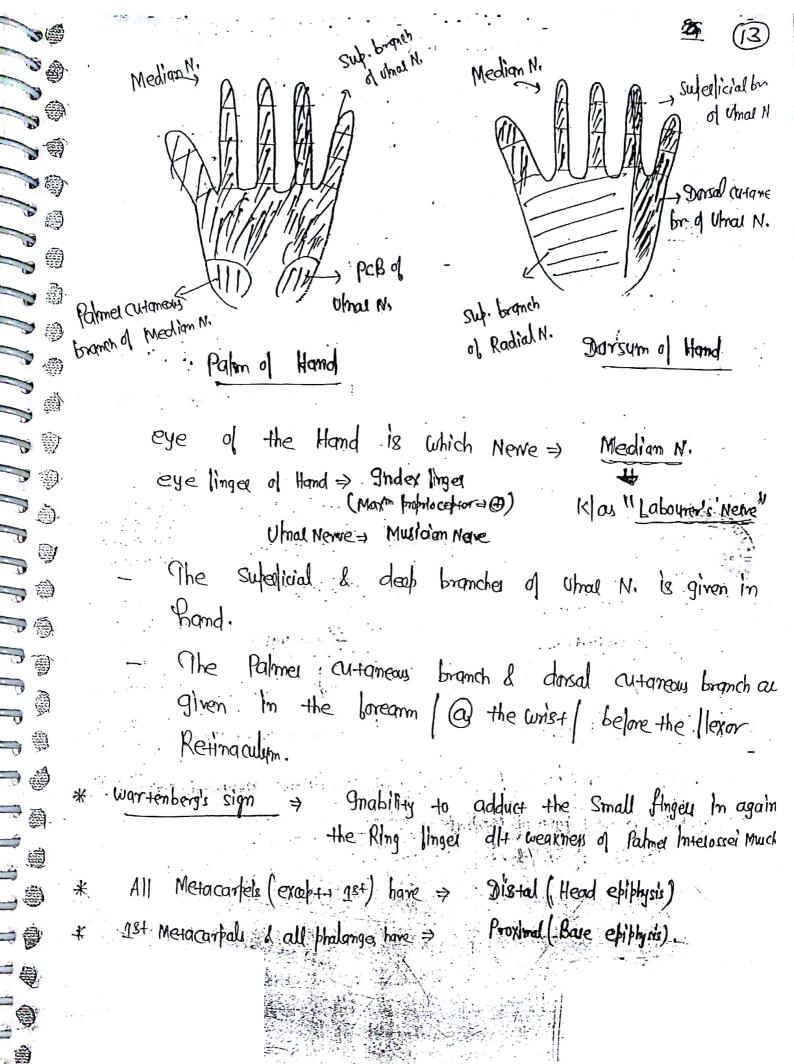
ACTION > Flexion of Mplioing Extension @ 1Pjoin+ * Palalysis leads to class hands Muscles Subflied by Median N. In the Hand => 5 Muscles pollicis brevis Abductor pollicis brevis (Superlicial head) Ophoneam pollicis 18+ & and Lymbrials. Gimb of the hand is due to > Flexor tendom (Long) supplied by Ulmai No. In the Hand => 15 Mucles * Musdes Abductor digiti minimi brevis Flexor digiti minimi brevis Opponegn digiti minimi 3 rd & 4th Lumbricals 4 Palmer Interossei (Adduction of lingers) 4 dorsal microsses (Abduction of lingues) Adductor Pollicis (Graveyard of Ulmal N.) Deep head of Flexin pollicis brevis Superlicial branch of Ulmar N. Supplies >

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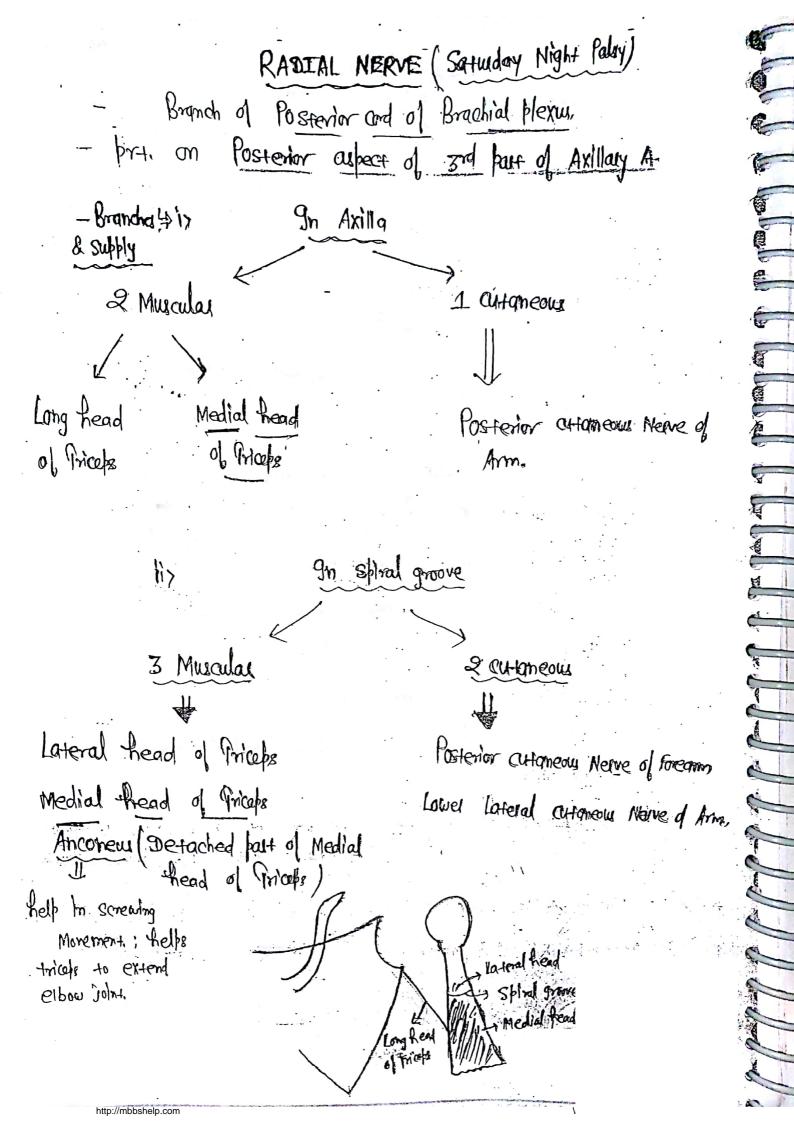
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goes below the Brachioradialis; Lies in the roof of Anatomical Snull box & supplies the 8kin on the dorsum of hand & proximal phalanger of Lateral 31 linger

Deep branch

Postellar Interospenses Nerve

Radial N. divide in 2 terminal

pierces the supmator & suppl all the dosal aspect

Cherelgia Parethetica => Compression of the superficial broof Radial-Non

* Last Mucle Supplied by Radial NA BR (Brachloradidis)

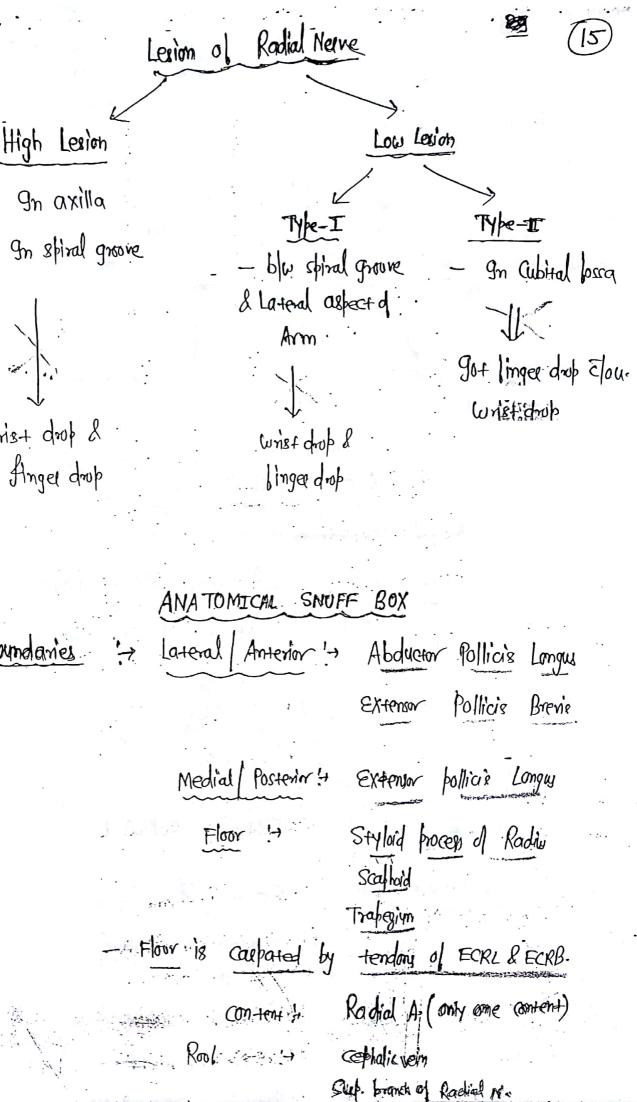
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BACK OF THE FOREARM p Inserted on base of 5th Metarortel bare. SUPERFICIAL MUSCLE Anconery - Radial N. In spiral grove Brachionadiahs Radial N. on the Lateral aipect of Arm Extensor calpil Radialis Longus Muscle of extension compositivent Extensor angli Radialdo brevis of forearm that could flexion Extensor digitorym ol elpon. Extensor digiti boninimil. Poctezion Interosseous Neve Extensor carpii ulnalis Deep Marcle Abductor Pollicis Longus Extensor pollicis brevis Longus Extensor pollicis Extensor Indices Supinator myst doop => 0/4 Paralysis of ECRL d|+ Paralyni of Extensor digitarins. Finger drop Extension @ corlst done by > ECRL suffled by Radial No Extensor of digit done by > Extensor digitorm subblied by Posterior interses Nerve

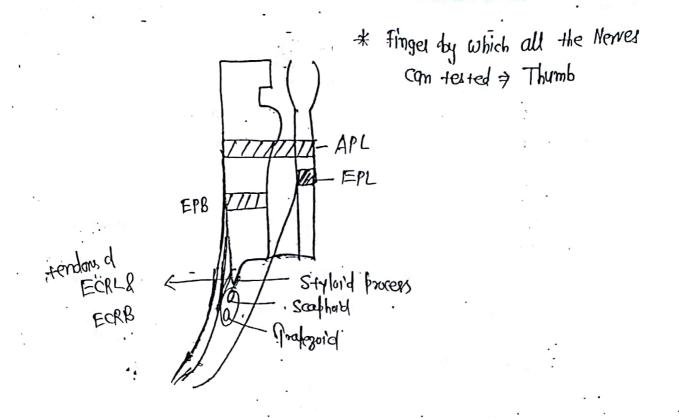
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Wrist doop &



EXTENSOR REPINACULUM

Lateral to Medial compatement 5

184 Sombalthant > Abductor pollicis Longue

Extensor pollicis brevis

TIND Compactment > ECRL

ECRB

III'd compainment > Extensor Pollicis Longiu

Inth compartment => Extensor digitaryons

Anterlor Interesseous A

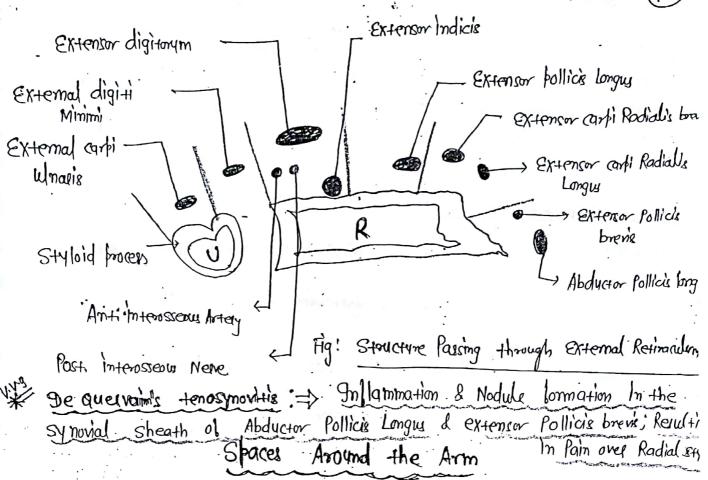
Extensor Indicis

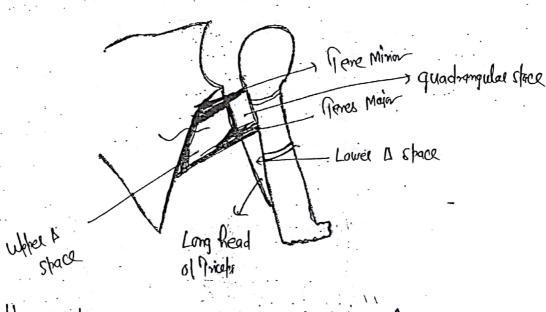
Posterior Interesser N.

Ith compatiment => Extensor digiti animimi

VIII amplaiting & Extenser could whatis

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Lower A shace > content > circumilex charmonal A

Lower △ space => content => Radial No Prolymda brachii A

8

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Quantillary M. Postelior circumllar hymeral vessely.

Regim Boundaries · Upper Triangular Superior! Teres Mimor Space of Arm girlerion! Teres Major Lateral: Long heads of Tricels Superior! Teres Major · Lower Triangulat Space of Arm Medial! Long head of Tricels Lateral! Shalt of Humeru Superior! Quarangulai Teres Minor; space of Arm Inlerior: Teres Major! Medial! Long head of Trices; Lateral! Sugical Neak of Hymeru DERMATOME THUMB 3 lingas Little linger 18+ Creb space Last web space G-C8

Chiel Lymph Node draining the breast :=> Ant. Axillary (17) Supplying the breast :=> Lateral thoracic Amery. Involvement of attaneous Lymphatia => Peau-die-oran In Ca breast leads to appearance Involvement of Lacterland duct in ca breast > Retraction of Nipple coppel's ligament in a breakt leads to > Puckeling/ ol Jinophement diretting of skines BOWH. Triangle of Awaltation Trabezlus. Medled Medial border of Scapula ⇒ Lattismus dors! 6th & 7th Rib & interestal space Hw them Rhombaides Major curist joint 12 lormed blu Lover end of Radius & 18+ 3 carpel bomes Scaphold; Lymate & Triqueton Separated by Arthur disc

The state of

JOINA'S OF UPPER LIMB

Saddle type of Symovial joint. Stermo clavicular Join+ Acromio claviculae Joint > Plain synovial join+ only gliding Movement Shoulder Join+ Ball d Socket Joint Hinge Joinf elbow joint > Pivo+ Join+ (synovial) Superior l'interior Radio-Umal >. (Trochold) Middle Radio-Wnal join+ > Syndermosis type of librou joint Ellipsoidal type of Joint. wrist Joint. Saddle type of symulal joint (sellar) 18+ callo Meta cachel John >. Intercarpel joint Plain synovial joint Metacarpobhalengeal joint => andyla type of synovial joint (Ellipsoida More than Hinge Johns Interphalengeal joint

- * Unibirmate Muscle: -> Arises from 1 tendon (Eg => 18+ & 2nd lumbricals)
 or from 1 bone (Eg => Palmal interessei)
- Bilinmate Mucle : Arises from 2 tendon (Eg => 3rd & 4th Lymbricals)
 or from 2 bones (Eg => Dorsal Interesses)
- * MOST trequently dislocated joint > Gilerohymeral Most mobile joint).

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N. C.

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Sub-talay Joint (Talo cal ameum) -> Plain Symbolal 17/>Talo-calcanes Navicular join + Ball & Socket H + Hip joins Talo calamonavicular John I to grando statedial Saddle 9 + Shoulder joint. * Cal cano cuboid John Plain Synovial Smaller joint of Foreloo+ Condylar joint Meta-tarsophalmoged Joint 多圖 Inter phalmaged * Hinge joint Jome

ARCHES OF FOOT

Medial Longitudinal Arch

Calcaneum, Talu; Navigular: 3 rémeilonn;

3 Metataval bones

Intersequental" Shring Ligament Plantal Calqueo

> Suppras the head of Taluy

Tibials Amelor & Sling -> Tibialis Posterior

Lateral Longitudial Arch

Calcaneum; cuboid; 4th 25th Metatawal

> Short & long Plantal Liggments

Peroneus Longus & Peronau Bravis

Grainage of Lower LINB VENOUS

(1) Dorsal venous Arch

(2) Medial - Marginal velo

3 Cateral Marginal very

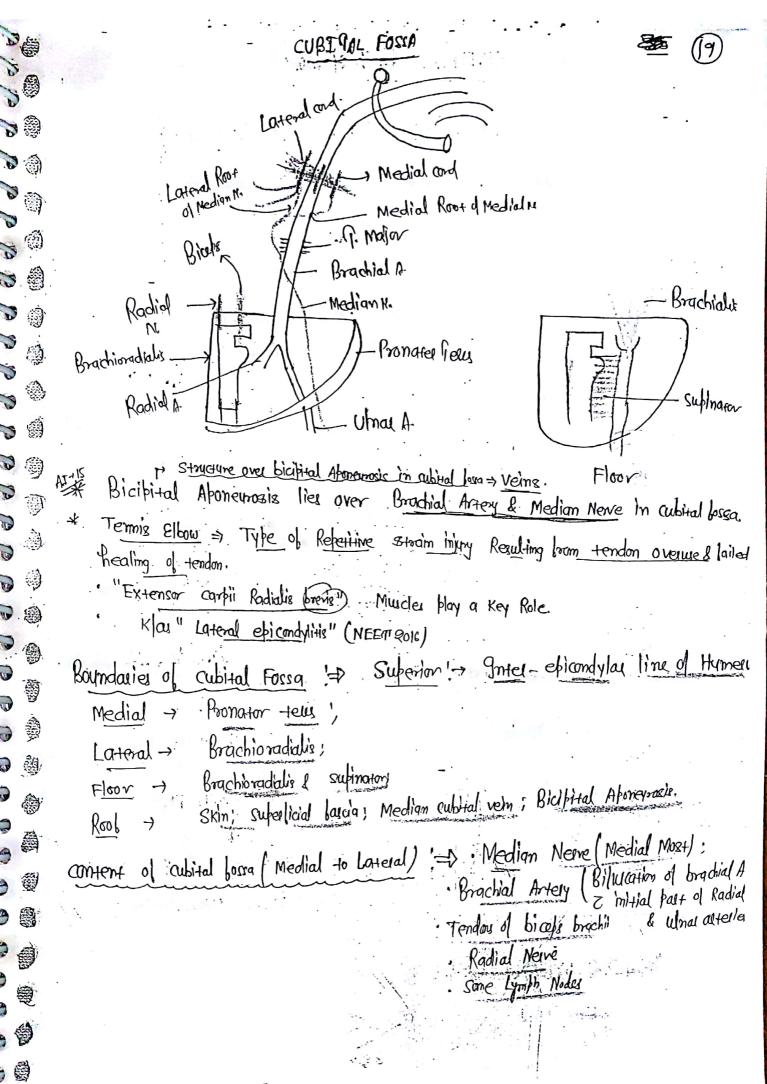
Gisv (Gireat sephanou veln)

SSV (Short Schanou vem).

Marginal vely

DOI. Margin SSV.

Short sephanous very (say) Great Sephanous vely (Gisy) Groves in bront of Medial Malledus (NEET'IL) -> Gives behind the lateral Malleglus Accompanies the safhenous N - Accompanies the swal N into-lemoduely uripod . - Draine into-Coplina Gosts + Holling Saphenous opening lies 4cm (15 inch) below & Lateral to Pubic tuberde where it opens Perforating veins (They connect the superlicial velou of the 17-10 demond vely. deel vein) Loca-lim Connects Mid thigh Addyctor Great sephanous with godds) canal Will-the letnoral velon Hym-talign Knee Just below Given sephonous with the Perloration Knee Posterior tibial V-(Boyds) Leg-Short sephanous with the Junction of Lateral Ankle Middle & Lover third Peroneal velo Leg-.Upper Medial Carl Carl Posterior Arch win Medial Ankle Junction of Middle & the Postprior Hibial (COCKETT) lower third of leg Lower Medial below & behind Medial Malleolis Middle - bla two



, G	ENERAL EMBRYOLOGY	
> Fertilisation o	caus in => Ampula of	Fallopian tube
-> Zigote divides to	form > 16 celled M	Porala
	as it enter	in Uteline Cavity, llyld
	from the Uteru	s enter the Monda &
	dinder it Into	Prophoblant
· .	22 8 7	Innel Cell Mars
		Emburhlas,

- Canty 18 Klas !! Blastoyst!

- This structure is klar " Blastula".

The Outer cell mass differentiate into Symptio trophoblast cell walls are abt.; at the Nuclei are scarrered

Cyto-trophoblast

Cell walls are distinct; there is one Nucleus in each cell

The grane cell Mass differentiate Into Tallier Brace Continuo Celly Emboyddaet

11

Cuboidal cells.
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Epiblast grows ground the Cyto trophoblast to enclose the Ammiotic Cavity.

Hypoblast Similarly encloses the Yolk sac

The germ disc is > Bilammas

The Hypoblast Yolk Sac forms "Extra-embryonic Mesoderm"

Which lies blu annahoric carry! Yolk Sac & Cyto-trophoblast.

Small cavities appear here; which joins to form extra ent coeloem advise; this cavity divides the Mesoderm in

Extra-embryonic Extra-embryonic Somatopleuic Somatopleuic Somatopleuic Which lines the Which lines the Which lines the chibloui connective stalk Amniotic Cavity & Cytotrophoblast"

Ammion
Future Umbilical cond
Chomion
Hyloblast

Extra entrusome all

-) EX-tra Contrayo Somatobleunic Mesodern

Extra embryanic stanchoffenic Merderson

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3. **8**

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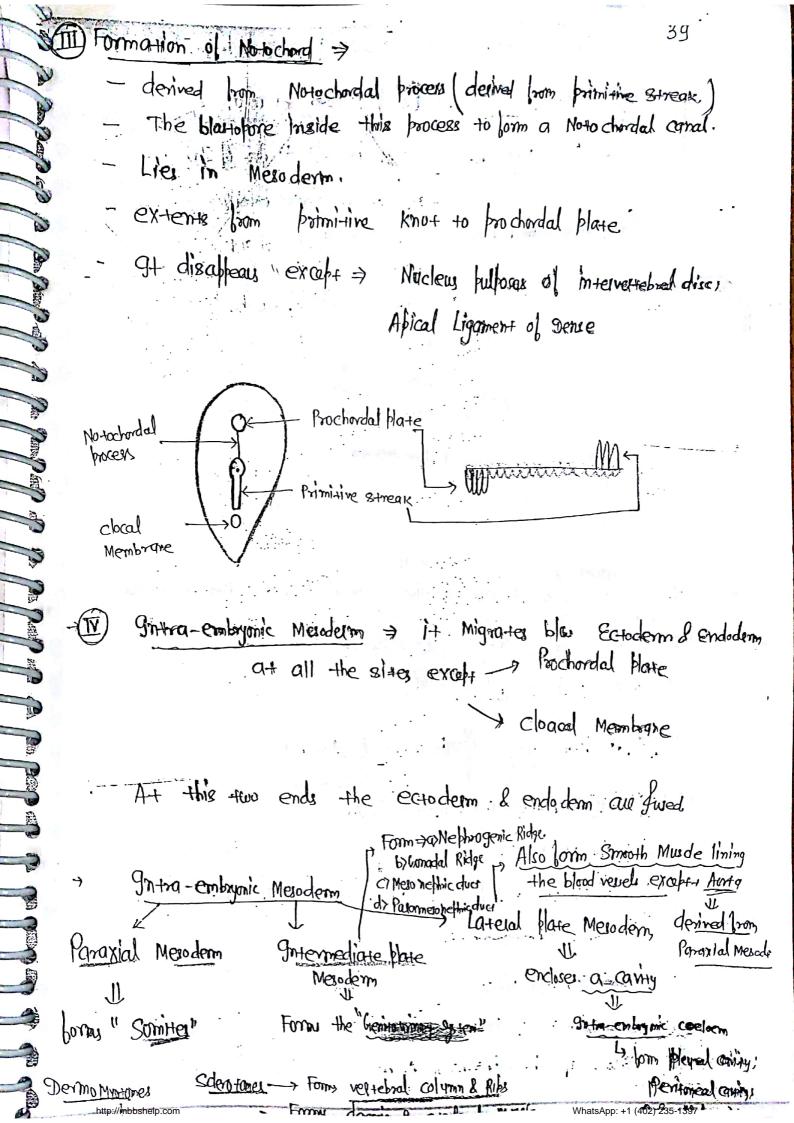
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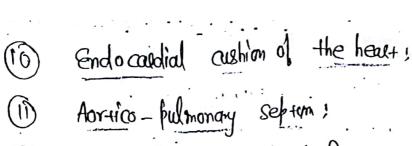
Formation of Pro-chardial plate Burro-phayingered Membigne?	7
- The Hypoblast @ one find become col umnal.	2
1	
they form an elevation in the Amniotic cavity	
Klay" Prochadial place"	3
	9
borns luture Mouth	
defermines chadic end de central axis	
a embyo:	9
Formation of Primitive streak :=>	9
- The epiblastic cells a caudal end grows rapidly	6
	6
They form an elevation in the armiotic carrier	
m In embryo 1s -> Epiblant;	
* 18+ germ later to be larmed in embryois Roynded Anterior Structure to be	
Endoderm > Meroderm > Ectoderm	1
Depression in Primitive Knot is Klay	
Functions = (Formation of all the germ layer;	6
(2) Tormation of No to charded process	
Fate => 94 disations; but if featists from 1 sans carrycal for manifely	1/2/
	The state of

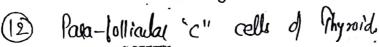


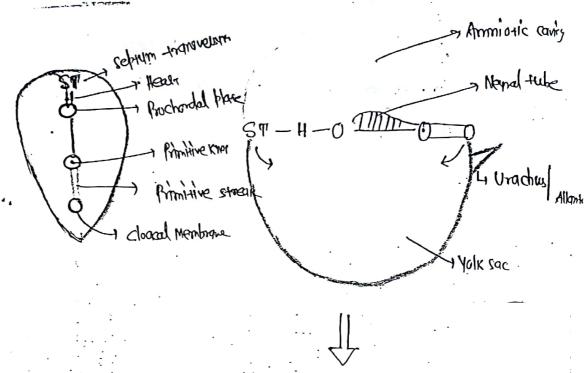
Formation of Neural tube > Derive rom ectoderin. Forms the Brain & spinal and; Ant Neuropone Closes by 25th day of IUL. (cramlal) Fail to close => Amencephaly Post. Negropone closes by 27th day of IUL (Candal) Fail to close => Spinal bilida. a Neural (reast cells ~ Netral tube , Patrial Mesodom gnemediate blate Madem → Lateral blate Mesodern Notochard begins in the cervical Region; then extends of Nevral tube Cramially & caydally. Deriverine * Neural Creat cells !=> Adreral Medulla 88 NEE 16 Leptomeninges (Piameter + Arachnoid) adontoblast (teeth lorning alls) (4) Melanocytes 60 (5) Schwarm cells (form myellne in Peripheral Nervous system) Dorsal Root ganglion (Ĝ) **(**†) Autonomic ganglion 8 Skeleton of Facts (9) Nepes of the phayinged Arches

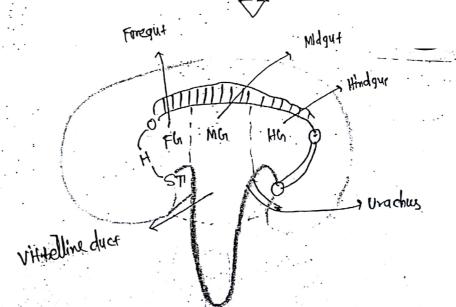
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10 villus => Syncytio-trophoblast & cyto-trophoblast

20 villes => Syn cytio trophoblast + cytotrophoblast + Extra-Embryo Mesode

30 villes => Syngytio-trophoblast + Cyto-trophoblast + Extra - Embryonic M + B vessels.

INFERDOR EXPREMERY

17 Klas " Sublinguimal stake" Pelvilemonal space > Lies below the Inquiral Ligament, Similar to a ex of axilla,

Meralgia Palesthetica - Compression of Lateral lemmal cutaneous N. of thigh (Branch of Lymbas plexus) , agains + the Inguinal Ligations.

Fernaral triangle > Boundaries >

Medial border of saltoring Laterally

Medially Medial border of Adductor Longus

Bare Inguinal Ligament

gliacus! Floor

(lateral to Medial) Proper Major

Pecti new;

9liacy Adductor Longus ilio Proces grown Sartorius +

Address Longus + Pecineus Fermonal vessels enclosed In lemonal sheats; CONHENIS

Femoral Nerve.

* Fermonal Herming => Below & Lateral to Pubercle (Public) Inguinal Heria -> Above & Medial to Pubic tubercle

+ Geni+o-lemoral N.

→ Roal Major

' Furmel Shaped fascial sheath endosing when 3-75 cm Femoral sheath Fermal veriely. Anteriorly > Fascia transversalis Posterioly => illiaca Fascia Femoral Sheath Medial compatiment/Feb Lateral compatinent Intermediate annhaltment Contain ⇒ Fernand A+; Upher bart of Fernand and Fernoval branch of antain Fernand Klas " Fermal Ring M vein genito/emoral N. Boundaries of Fernand Ring > Inguinal ligament Poulants ligament Anterior > Lacunal ligament/ Grimbennath ligament Medially => Pecificate ligament Coopels ligament Posteriorly separating It from Fernal vely Fernaral Ring is closed by "Lymph Nade of cloquet Rason mullers drain by glany panis or glans Citions.

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Fernaral Rhy is widen in lemales dit wider beins & Smaller Size of blood vessels. Occassionally Abnormal obtunitor array branch of Inferior epigastricas lies on Lacunal Ligament; leading to themorthage Fernard Nerve lies outside the Fernard sheath Anterior superior iliac spine Ant. Infector illiac spine (ASIS) (AMIX) Muscle. Sartonius Straight head of Rectu demoris. Inguinal Tho-lemonal Ligarient

America compatiment of Thigh

SARTORIUS Amt. Superlor iliac 8/me

Longert Muscle of the body. greethon Medial aspect of Shaft of tibia along

With grantless & Semiteralinosis

Guy Rober (Pes Amsedmus)

Action > Abduction; Lateral Rotation & Hexlon @ Hip/so

Flexion & Medial Rotation @ Knee Johns

Also Klas " Tailor's Mude of Honeymoon Muscle"

Quadrices lemons => Rectus Fermonis + Vastus Medialis + Vastus Intermedius + Vastus Lateralis

Rectus Femoris >

Straight head Relead head

anses from anses above

Ant- Inlevier the Ace-tabulum

Mac Spine

Action => extension @ Knee joint & lexion @ Airb Joint.

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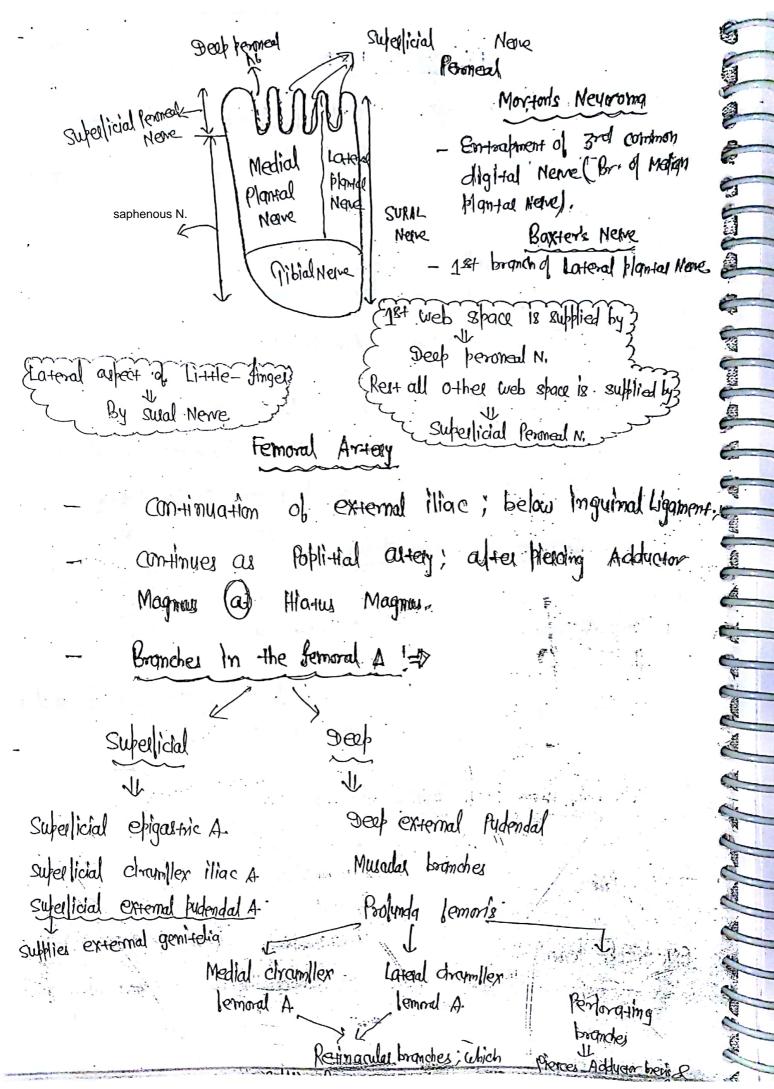
Valtus Medialis Stabilizer Potello & Valtus Medialis prevent its Lateral dislocation. Valtus Intermedialis Vaitus Lateralis Insertion of Quadraceles lemon's > Bove of the parella 6 Continues as Ligamenum batellae Action > extension @ the knee Joint; Rectus lemon's also cames blestom a the this Joint. Locking of the Kneefolmt (Medial Rotation of Femue duing the final stages of extension; When the loot is on the group). When loot is all the ground -> Tible Rotates, laterally

Femoral Nerve
- Largest branch of Lymbas Hexus;
- formed by the dorsal division of ventral Rami of Le,
- Lies In the Ilio-Psous groove. - Lies outside the fernoral sheath,
- 9+ has a trumk; Anterior & Posterior division.
- Branches from Trunk > No to Gliacus;
No to Pectineux; (Lateral hall)
CETTURY N. to Pectineus passes Medialuned behind the ferminal Artery.
- Branches from Ant division =
1 Musculae 2 Cutameon
Saltorius Medial & Ant. Intermediate lemoral Cut Newe of thigh
- Branches from Past division ->
4 Musaleu 1 Cutameeus
Saffenous News (Longers Cuttoneous N.)
Quadricels femonts L. Sublies the skin on Medicle asker of

http://mbbshelp.com

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Les & loof who great ties

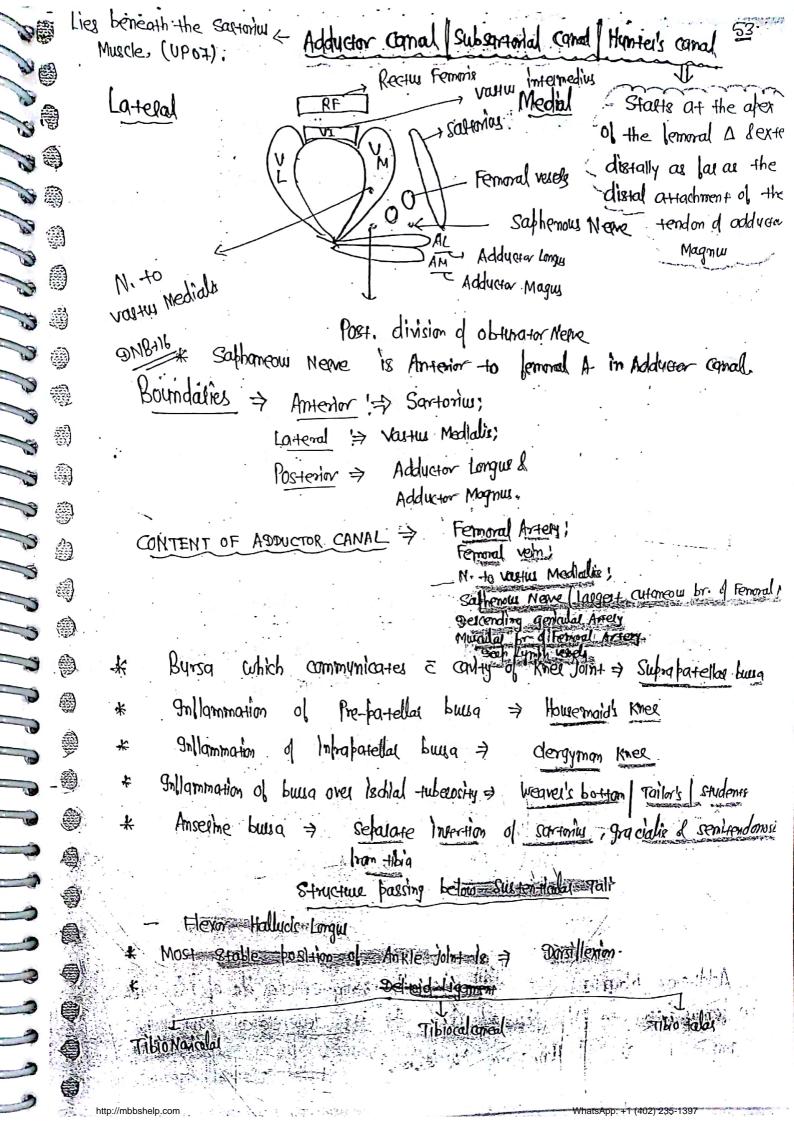


Total No d Pelmators > 4 4 and Perforating branches gives Nutrient A to lemme QQ Branches in Adductor Canal Descending Greniculal Artery Last branch given by the benoal before it pieces the adductor Magnus coronary ligament :=> Attaches the Medial & Lateral Meniscus Medial & Lateral amodyle of Hibia. the Menisco-Jemonal Ligament: > attaches the bosterior part of Lateral to the Femul, Menigous anterior Menisto-Fernaral Ligament Ligament of Humphey :=> goes America to PCL. (b) Postenior Menisco-Fernand Ligament Ligament of wrising Lies behind the PCL (New Wrighterg > News Intermedia) (Servery by Madal News)

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Medial Compartment of Thigh (Adductor of Thigh)
Obturator News > Branch of Lumbau Hexus
- Formed by vennal division of ventral Ramiol
L2, L3, L4.
- Related to Ala of the Somm;
- Forms the lateral boundry of "Ovarian lossa"
- Emerges out through obtuator forgmen & divides into
Antichor Division Posterior
- Adductor Longus - Adductor Magny
- Adductor brevis - Ob-thintor Physonus
- Chacilis Longest Mucle Among
- Medial hall of Pectinery Adductor of thigh.
Action > Adduction & Medial Rotation @ Hip Johnt:
Gracilis also caus Flexion & Medial Romation @ Knee joing
Coutedlan of virginity)
Obturator externos causes Lateral Rotation of the hip
Objurgion N. Sulflies both Hip & Knee Joints. In case of disease of Alp
Joint May be referred to Knew Joint

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POSTERIOR COMPARTMENT OF THIGH

Hamstring Mude Semi-tendinosus

> Semimembranosus Inserted on the medial andyle Ol tibiq; Continues as the oblique poplitical Ligament; Which lies in the lloor of boblished bossa

a

Adductor Magney Ischial Read

Bicelos lemonis

Long head

Arises from the Isochial tubelosity

Short head

Arises from Linea Aspera of Femus,

Long head of Biolis Janones Semiteral hours Superolateral Bussa 7 Addyctor Magny

not fully the Hamsting onterior He of 1-12 insertion Adductor Magnin in lemmy (No+ in Tibis Fibilia) to but a diff its degenerated fout 1/4 /2 considered as Homstring Moude, Viblat collateral ligament

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1	
	Criteria for Hamstring origin => 9schial tubelosity
100	•
	Grueraton > Milia & libula
8	M. suffy > Tibial part of Sciatic Nerve
	A C-tion > Extension @ Hib join+ & blexion
	@ the knee Joint.
	Degenerative Parts * Tibial Collateral Ligament :=>
the Co	
	L, degenerated but of Adductor Magnus
	* Fibular Collateral Ligament
	of Toward Collateral Lightent
3 8	4 degenerated fact of Peroneus Longus
	and the first of the control of the
	* Oblique popliteal ligament
	degenerated but of Seminembranosus.
	bierced by Middle genicular N. 2 vessels and the
	posterior division of obturator N.
	* Sacro-tuberous liamons ==
	TO COMPANY
	I degenerated part of long thead of blocks lemonis
	gives origin to Gikter Maximus.
	* Sacrosphou Ligament =>
	dom.
	degenerated part of coargew.
	* Articular discretify joint > degenerated hart of Lateral Prevygold
٠, •	* Articularis gov -> detacted bart of Valus Merrediu.
	Holds the abes of Sabra-batellas bulla,
2	#p://mbbshelp.com WhatsApp: +4-(402) 235-1397

- * The Short head of bicels is not hamsty bles
 - a Arises from Linear Astronomy.
 - (6) Supplied by Common Peroneal part of Sciaric N.
 - Bicels Fernans is inserted on head of libula.

9110 -tibial tract

Formed by Splitting of Farcia lata;

Muscle Inserted > Gluten Maximus

Tenor facia lata!

- This tract is attached to anterior after of lateral condyle of thisia
- Action > Abduction & lexion @ hipsolmt.

 extension @ Kneedolns.

Gluteus Maximus

Origin to a Gilluteal Surface of illium behind the posterior ghiteal Line;

- b) Dorsal aspect of iliac creast
- C> Sacrum & coccyc * & & & line Injection In buttock
 - Sacro-tuberous Ugament :=> Uples oute quadrant (Supero-lateral)

greenion (7) a) glotibial tract
b) Giluted tubersity of fema.

中心中的

Scionic Bed - 91 18 formed by =>

- 1) Superior genellus
- 2) Obtyvator Interney
- 3 Interior genelly
- (4) Quadratus lemonie
- (5) Addyctor Magnus

PolyHeal Fossa

Boundaires > Suberolational > Bimbs Fermon's

Superornadial > Semitendinosis & Seminembranasis
assisted by Sartonius gracillis

Interological > Lateral head of Grasmochemius

Anteromedial > Medial head of Grasmochemius

Floor > Poplited Sulare of Femus,
capsule of the Rinerjoinnt
Oblique poplited Ligament
Popliters Mude

Fascia covering the Popultery Muscle

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0

Se Ell

Insertion & Postellar sulace of shalt of tibig over sole! Line l'ibial Nove

-FAL (Flexor halluu's Longu)

Post. Hibial altory Arteny =>

Sigitoral Length PP (Mi bladis Pacterior)

> Structure basing behind the Henr Retinacular though laurel tun (Ant to Passerlan)

libialis Posterior

Mineminia > The Doctors Are Not Here Flexor digitary Langus

Post tibial A

Soleal

14.3

1

ANTERIOR COMPARTMENT OF LEG
1) Tibialis Anterior; (2) Extensor hallucis Longui;
3) Extensor digitarum Langue;
Peroneus teltius
Action => Dorsillexion (a) ankle Johnt;
Tibialis annerior also causes Invention & acts as a sting for the Medial Longitudinal Arch.
Neave -> Deep beronal N.
Arrier => Ant Hibial A - after piercing the Interosseus Membrane
Structure bassing behind the Extensor Retinandum
Medial to Lateral >> Pibialis Anterior
Anemonics: Extensor hallucis Longus
he Himalayor Are Not Dry Platery Anterior Hibial A
Deep benned Nove
Extensor digitorym Longw;
Remonent Helting
LATERAL COMPARTIMENTI OF LEG
Musde => Penneus Longus
Peranteu brievis
Newe = Suberlicial becomed No
Artery => Peroneal A - branch of Posterior - Hibial A
ACTION > Everylon of loot.
- ACH as a sling for the Lateral Longitudial arch.

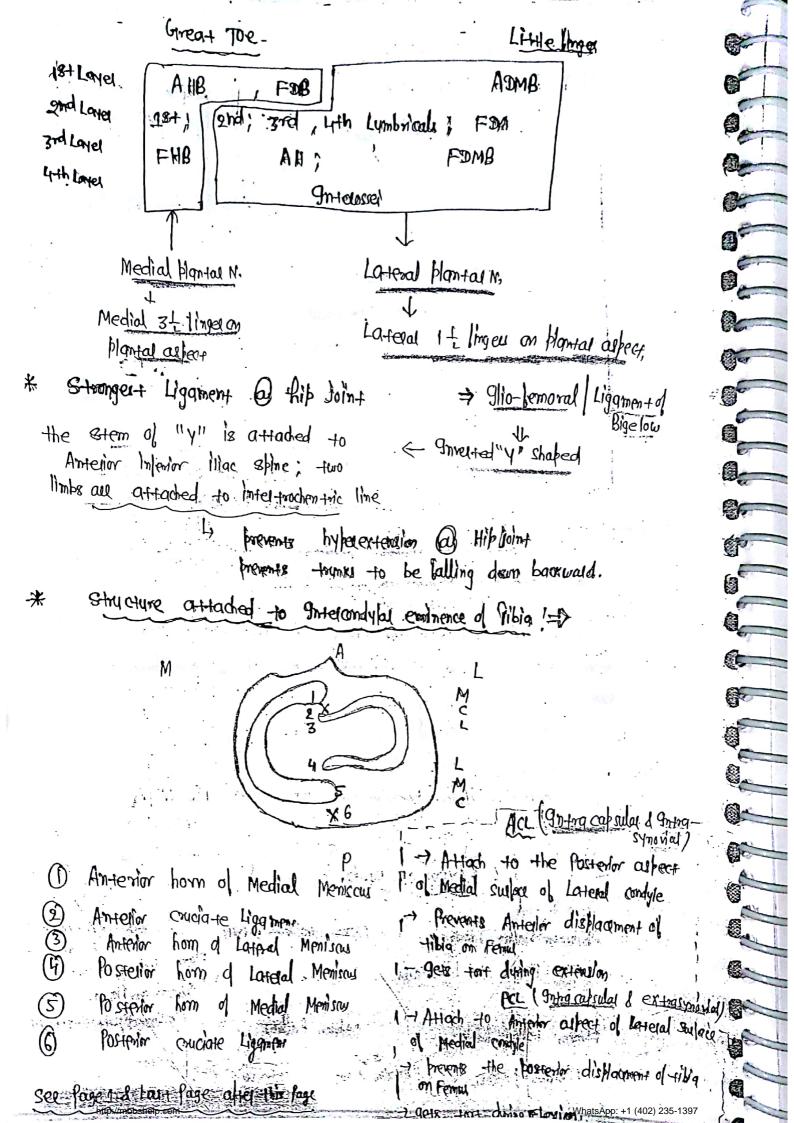
* High stather comby Naiching Grant

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New Heitans 16 Perment Newe Common benoned No. - superlicated fermal 14 9+ hesitate to cross the Antellor - Deal personal N. tibial Astery. TO Anti tibial Arten 3 Tibialis Posterion Ground the Medial Malledia: Chiefly inserted on Navioulas Rubersity. Je Sends slibs to all the tauals & Metatauals except talm 15565th tendon which winds ground Lateral Malleolus Peroney brevis on base & tuberosity of 5th Metatal Peroneus Longus the Peroneus brevis till the cubild, then turn a Right angle; groves the abold to passes below the bases of Metaraux 70 power. Tiballs Anterior Lateral aspect of base of the 1st Metatallal & Medial on aneilonn Medial cuneilorn bone Receives the Insertion of -> Tibialis Anterior Tibilis Beterior Pendrau Longus LAYER OF SOLE Little Hyper Utreat toe 1st layer = Abductor hallucis brevis Flexor digitorying brewis Abdresor digiti Imhimi 2nd Layer > FHL; For) Lymbnicals Flexor digitary anomies Quadratus Ibnial zid Layer => Hexar halluds brevs Flexor digitiminal brevie Address hallyers Tibialis Possesion - 4 Dorsel

Peroleus Langue

3 Manfal



THORAX

9

J @

Head of the Rib articulates & the body of thoracic reties

Via "Costo-Vertebral Joint"

VIQ Casto-Veltebal Joint

Tuberde of the RIB alticulater ? transmerse process

COSto-fraguneure Joint

Shalft of the Rib alticulates & constal autiliage

" Costo chandral joint

Bucket -handle imovement changes => Transverse diameter of thorax

Pump -handle imovement changes => Ap diameter of thorax

Contraction of diaphragm changes => vertical diameter of thorax.

Sth week) of Fetal Life & is seen limitly in 6th & 7th Ribs.

Intercostal space

9ntercostal Mudes :> EICM

TICM

Transveue thoracious

Sterno-costalis

Anteriorly bra

Imelmost Intercostal

Lateally

* The Neurovaralay plane of though lies blue internal & inmernal & inmernal frame in the constal grown along interior border of the Rib (Vein -> Atternal Norme)

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Sub castalis

Posterially

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9

This 18 Revened in 181 RIB(N-) A=V) sequena Neurovaialai plane of body : Neck Scaleny Posterior Scalena Mediu Scalenus Anterior Inmernet Interested thorat External intercostal Internal Interestal Abdomen External oblique Internal delique Transme Adminis during pleural tapping In Mid-axillary the => Structure pierced Skin: While doing throacocentesis; it is advisable to introduce Needle Superficial laucia along - Upper border of the Rib. Step laucia Sepratu Anterior External interestal Interestal GAMERMOST Intercostal Endothnacie laura Pairetal pleusa

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₩naเъ,

Internal thoracle Artery

- Branch of 1st part of Subdavian A.
- on either side of the sternum;
- At the six inc space divides linto ;

Musculo Astronic Superior epignamic 1 · Supplies the Intercontal moude &

enter the abdomen through

16

多

20

9

9

diaphragm "Foramen of Morgagni | Space of Larry" gives Amterior ile arrevies in Lower

Amastomosis & the Interior eloigatine A.; Which is the branch external illac A

Anterior Intercostal Arrey

- the upper six v staces a bounder of internal thoracic Arrey.
- In the Lower staces the bounder of Musculophrenic Anery. Tire Ith- 9thile stace
- There are two America Intercostal anteries in each space

Posterior Intercostal Anapy

In the Lower 1/c spaces are branches of descanding thorace Aorta

In the upper two staces they are branches of

Superior Intercestal A.

o costi-cervical touris

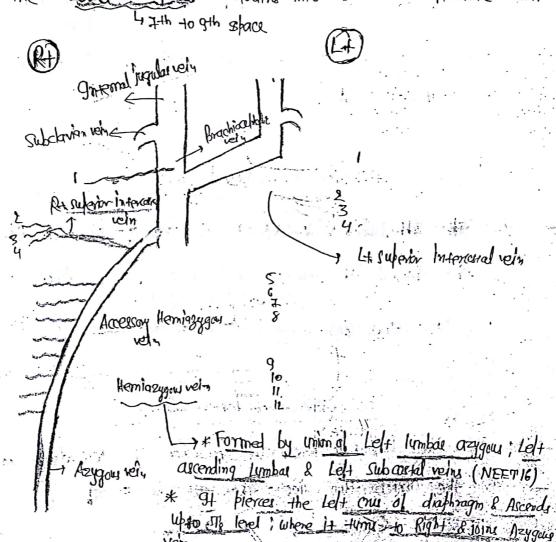
http://mbbshelp.com of and bat of Subclavian A-

- There is one Posterior ilc: Artelles in each shace.
- At the angle of Rib; it gives a collateral branches.
- The two Rosterior ilc Arteries attourses & two Anterior ilc Arteries (a) the costo-chandal junction;

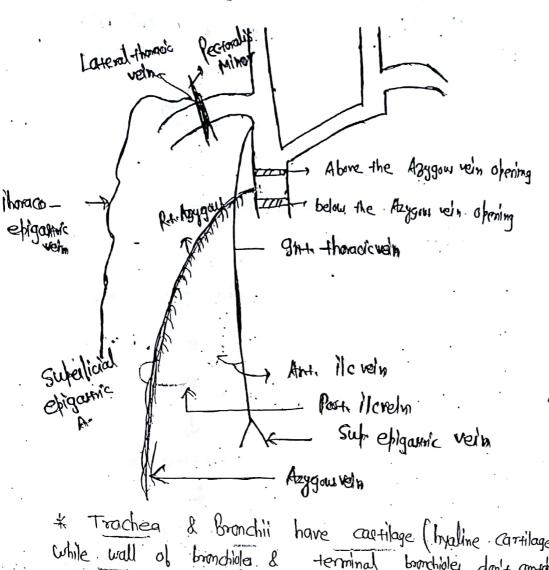
 Rt. Posterior ikc artery are longer than the left.

Anterior interastal veins

- In the upper six spaces doains into - Internal theractic vein - In the Lower spaces doains into - Muculo phienic vein



NEE! If draine 9th to 1th left hostenar ile rely desophyced why Rt. bronchial veins drain into Left superior intercostal or heritarygou win



have cartilage (hyaline cartilage) in their wall; While wall of bronchioles & terminal bronchioles don't antoin autilage.

Intel COStal Nerve

ventral Ramu of a thoracic splinal Nerve the Antero - cutaneous branch; 2, Anything else il it is Branches Supplying; it is > Atyphael Lateral - attations branch; Musaday branch,

Typical Intercessal Nemes are > 73-176

Atypical Interestal News I, > Joins the brackled bleaus subble the Upper limb.

Lateral cutaneous branch of 75 June C Medical customery Henry of Arm vig Interros to brochie Whene 1 14021235 1307

The Lower ilc Nemes Supplies the Mude of America Abdomin

Rarietal pleura is pain somethive & supplied by illc & Phronic Mer visceral pleura is pain Inspositive & supplied by Autonomic Men

PLEURA & LUNG

1

39

79

9

9

*

Mid-clavicular

LUNG -> 6th Ribs

8th Ribs

10th Ribs

PLEURA -> 8th Ribs

10th Ribs

10th Ribs

* Pulmonary Visceral Heura is sufflied by Symphothetic (To-To segme & Palasymphothetic (Vagu N.)

The Mediastinal & diaphrograntic pleura are supplied by phrenic News

The costal & cervical pleans are supplied by Intercorral Nome

After of the lungs projects 5 cm above the 1st R16 & 25 cm above the clavicle. L. covered by cervical Heura

GPWHLEX. Overed by ! Sibsons laid a Perric

dishagn alps flows

TEET Sibson's lasci'a > extends from transverse process of G to inner border of 15t Rib laterally.

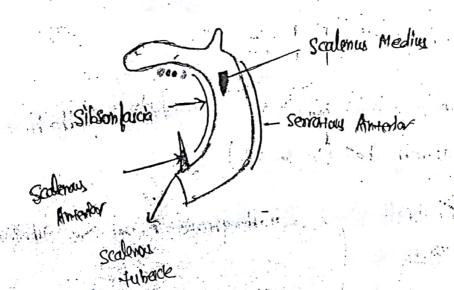
Oral-diathragin > Formed by Mylohyoid;

Pelvic-diathragin > Formed by Levator Ani;

Urogenital -diathragin > Formed by Sthington Urethril'

Steph from well e perimit

-> Structure attaches to the 1st Rib!=>



CHASSATGINAC TUBERCLE > Ant. tubercle of transverse brocess
of G. Vertebrae

Relation of the Neck of 1st Rib > (1) Symphathatic chain

SVAN(Med-1 Lateral) (2) 1st Rostevior 1/c vein

SVAN(Med-1 Lateral) (3) Sub. Intercostal Atery

(4) 184 Horacic Nelve

Relation of Ala of Sacrum Symphathetic Chain SLID (Med H Larelal) Lumbo savial - trunk 9110 limbal Artery Observator Neine 1-> Directly alticulates & steening through costal autiliage eg = 1st +07th Ribs TRUE RIBS 8th to 12th Ribs don't acticulate directly c the steemum, NEEDIS > 8th, 9th & 16th Ribs are attached to 7th Ribs by > Straval joints. 14th & 12th Ribs have No costal artilage & they have Anterior ends (Eleating Ribs). 17 Swigically Resectable. BRONCHO PULMONARY SEGMENT > Largest Subdivision of a Part of the sublied by one Petting branchy. Lyma Abical, Anterlor * Rt. Lung 18 Shorter; wide 8 heavier (625gn) than Lott lyng (565g) Posteria 11 3 monar LB AB PB (10)

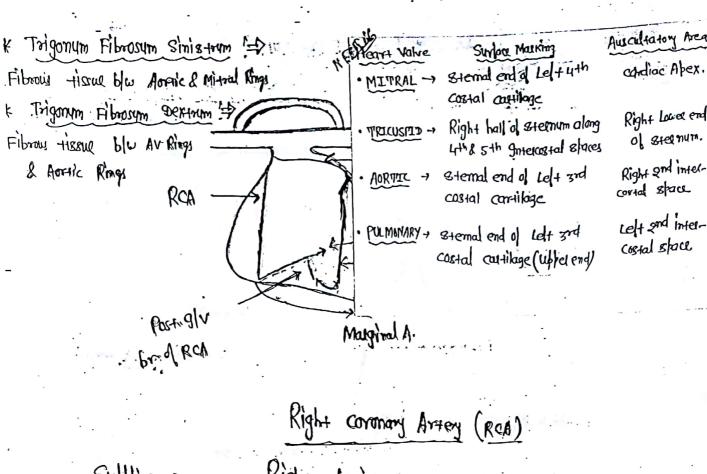
http://mbbshelp.com WhatsApp: + .

ls conical in shape Each brancho bulmmany segment 9+ has 1+8 - Palmonary Arreny & Terlian bronchar-Intersegmental. The Pulmonary veins are breign body entering the Noce; enter into Posterior basal segment of the Right Lung. Aspiration Pregnamia is common in =) [Aprical segment of Lower labe] Supplier Segment of Lower lobe ble of MOS+ dependent bout of Pasteriar segment of affect labe Lung while in supine position. Tradien 4 Billucates a caling, at the level of Lower border of Ty or Ty-Tz disc space, — Reti Primary branchus . 20 bronchies of Loures Lobe - Per-tiany branches for Past, based segment of Love Lobe Structure which arches. The hilum of Rt. Lung -> Azygow weln *Structure which archer ? the hillym of Laterny => Arch of Acrag Nene in bront of hilum > Phrenic N. Nene Behind hilling => Vagus Nr. Boron chial Arteines supply the Lung till the beginning of Respiratory boronchiale (conducting Past) & then Anastomore & Pulmonary attended

97

85

Cay



Subblies > Right Atrium;

Right ventricle;

SA Node;

Av Node

Left Bundle of His (Left bundle branch)

Posterior 1/3rd of the i/v septum

Abex - of the heart

LCA (Left coronary Artery)
Sulphies > Left Atmium

Left Ventrocle

Left & Right Bundles of His

Amterior 2/3rd of Illy seltum

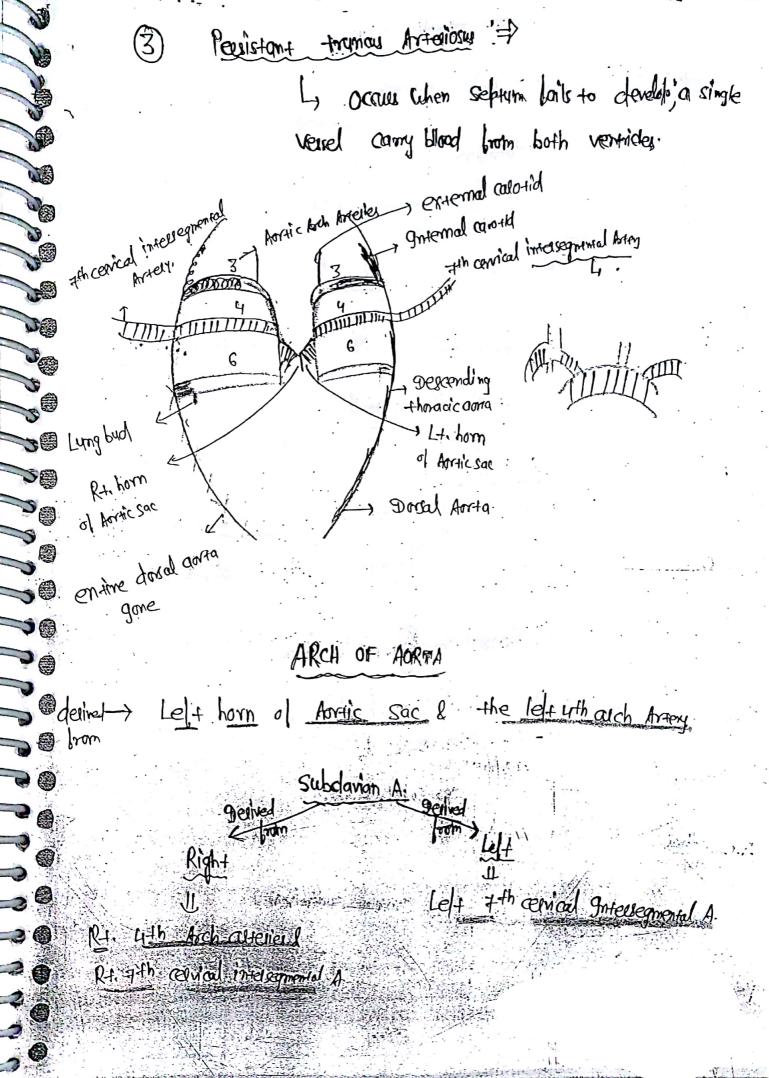
Alex of the Healt

Posterior ilv gracing is the branch of Rt. Coronary 90 * 9 3 V a 85 f. of the cases > Rth - coronary dominance it is a branch of chamilier => Lt coronary dominance X ď both gives this branch -> Co-dominance * VEINS OF HEART Small cardiac < - Marginal with - Cheat adjac veln Caronary sulay Middle audia veln Corollary Sulcus 18 => Posterior A/V growne All the veing draing in cononary stopy except 00 -7 2 97 85 A Amerior Cardiac vela Vene cordae Minimi (Thebaution weln) drain Into _3 Ri Arrim Oblique Simu of the perioadium lies behind Lit Athum to accommodate more blood coming lim Pulmonary weby

Right Amum The Line Johning suc to gue from outside 18 Klas "Sulcus terminalis" The same Line Iron Inside is klas "Cristal terminalis". 94 divides Rt Atriban Rough baut Sof # pour Shows Structure Similar Shows the opening of to teeth of around - Svc of guarded by Eustachian value Klas 11 Muscular Pectinal" - Cornary sinu - guarded by Phebalian valve Fossa Ovalis is Represented by "settum primum" Limbus Fossa ovalis is Represented by "Septem secundum" Triangle of koch - 1 Sepal Lealler of Tricultal value Boundailes 3 Opening of Coronary Sines. 3 Tendon of todalo Av Node 18 lies in this frigndle. SA Node Lie in the Imenin of Svc & RA AAAA

Heart & Blood versely tube 18 formed by Hydlulonic acid secreted by Myocardium 200 (NEFTIC) 沙雪 Heart tube or Tubola heart is formed at !=> 3 weiks QQ (NEE TIC) - Bulbus ardis Whites - Atrium -Zinu venosi Development of Right Atrium :=> Thrush presjoci -1/1 Bulbu Ordis PART DERIVED FROM · Smooth Posterior wall -> Right horn of Sinu venu is 4 absorbed in · Rough Anterior Wall ventales. Primitive Atrial Chambe Intelatrial Septum + Septum Primum & Saund oin Jome > Portal vein, Hebatic vein, enteric vely & belonic segment of Ivo i develops from > Right vitelline vem draining in the Sinu venosu i); left Melline velin & Donal Martomosis ble Vitelline from Yolk soc: Common addinal from body wall * Fate of Since venocus :=> The Rt. & Left horn of Sinus venosus opens int the Atrium through Sino atrial orilice The Left horn becames small in size; gets detacted from the athum Conormy Simus and now ofens Into the Rt hom. The Right horn is absorbed into the atrium => Selection spenium 2014 Strate 1983年 中心 14 18 bounded by left 2 flyl Venous valve. · The Left liver is Interagnal septym

Interventional Septem Musada pact Membranow part grows in the lloor of derived from > 9 Bulbar selarm the ventricular carry Formed in anu (6) Proliferation of Av cuellan. · Final closure of boramen ovale occur dit builon of (Septem briman & Septem secondum !! Truncus Arteriosus > The Aortico-pulmonary divides the truma alteriorus into Ascending corta & Pulmonory Frynk, Failure of Migration of Neural meast cells in this syment Results in ↑ TOF :=> MIC yamotic congenital heart delects 4 occus often septem shift Anterior & to the Right ; leading to > Pulmonary Stemasis; Membranou ilv septal defects Overniding of Airta. (2) Transposition of great resel = Mcc of cyanosis immediately 4 Occus who septim 1918 to develop 12-40 Shal Manney Aorta Anie Roventnice



Bradiocephalic trynk derived from => R+1 horn of Arraic Sac Pulmonary Arrelies 6th auch ateries derived from Ductous Arteriory derived from. - Left 6th auch alterie blu Lyng bud 8 the dosal Arriq Common caloudy 3rd Arch alteries derived from It gives a bud for external countid & itself continues as internal carotid along with donal Arria Descending thoradic Aorta derived from Left doxal Aorta Development of velo Anathomosti Fy Subdavim veln common cardinalism

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Internal Jugular veln

- derived from Ams. and wine above the assachment of subclavian vein

Right Brachiocephobic veln

Derived from => Rt. Ant. caudinal vein blu subdavian vein & Amato

Lt. Brachiocephalic vein

Derived from !=> Lt. Amer. cardinal vein subclavion vein & Amastomosis
& Anastomosis Hself.

Superior Vena Cava

derived from !=> Rt. Anterior cardinal vein below Athastomosis;

A left sided suc drains Into > Coronory Sinus

Develops from 1=> Coronory Sinus

Lt. common caedinal velo

Lt. horn of Sinous venosus

* Left. Suberior ile veins > derived from left America cardinal weins below the anatomosis

Proximal base of left Posteria andian win.

Daffragm Septum fransvelsim

- Dorsal & ventual Merentry of certifiague;
- Body wall

derived from =>

- · Pleuro-peritoneal Membranes
- Muscles are derived from > Cervical Myotomes
 - > A Postero lateral defect in the develop-Bochdalac's Hemia ment of dialhagm dit Non-lulon of Pleuro-pertoneal

Membrane.

Root of

Lies obposite to T's

- Arrangement of Structure
- Anterior to Posterior

(V-A-B)

Relations of the libral the lung

Therior -> Common on Both Side - Phrenic Neave-· Pericardio Phrenic vesels.

· Anterior bulmoning blexus

on Rt. side > SVC

· Part of Rt. Atrium.

Posterior => common on both side > · Vagus Newe · Posterior bulmonay Hexu!

on let side > Descending Thoracic Aorta

Suberior => on Rt. side => Terminal fact of Azygowieln

on left side > Arch of Aorta

Interior => Pulmonary Ligament

Bronchu

to Inletion > Superior

Kight

Pulmonary, Artery

ONBIS. Bron Chiy (10 Bronchu)

Pulmonay veln

: Epaterial bronchy (Superior Most)

Pulmonay Arteny

Hykarterial bronchy

girletor pulmonay rely (interior Matt)

· ; , 62

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1940 Superior & infesior by a imaginary line from 8-ternal lower border of My. (NEET'IL). Angle to

Media stinum !=> Superior $(\hat{\mathbf{I}})$

Retrosternal

- Sternolygid Mude
- Sternothyrold Mude
- Thyming

9nter Mediate

- · Formation of suc
- · Arch of Aorta & its branches
- · Vagu & physic Nr

re-vertebral

- Trachea (10-15 cm Long
- Exophagu
- · Left Reament Languages N.
 - Thoracic duct

Mediastinum In Jerior I

Anterior

· Superior d

Interior sternos

periordial Ligaments

Middle

- Heart & pericoldium:
- Billucation of Tracken;
- Ascending Aprila;
- Rt & Lt Pulmonay rem;
- Phrenic Neme

Posterior

- · Esophagus
- . Thoracic dues
- Descending theracic Arra
- Azygow weln
- Stlandanic Neive from
- lower & thoracia ganglia Hemiazygow John & According ha

Ana-tomical Landma

At He beginny

(Phay ngo = ero thag eal June 10 Chossing of Arric Arch

(rossing of Let Main Br

Melong diaphragn (At I

* ESOPHAGEAL CONSTRICTIONS NUMBER

DIStance from Incisor

15 cm (6. inch)

22.5 cm (9 mch)

275 cm (11 md)

37-5 cm - 40 cm (15-16 ind) 70-

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INTER-ATRIAL SEPTUM

- Sefrym priman grows from the wall of the Atrium towards the A-v Cushion.
- blu them is klas "Foramen Primum". Openima
- Primum lues & the A-vicushion & breaks of6 Septum

this opening is klas "Foramen Secondum"

Another septum to grow from wall of the Atrium Stalts

Klas "Septum Seccundum"

Lies Next to septim primum.

· opening blu them is Klas "Foramen ovale"

closure of Forcemen ovale occurs all + busion of septem primum & Secryndum. Septym

ASD (Atrial Septal Delect)

- 1. Septum Secondum type of ASD !=> Mc ASD
 - Occus dit excessive Resorption of Septum primum or Underdevelopment or Reduced Size of Settum. Secandum.
- Septum Primum type of ASD 1=>
 - · Failure of Septem primum to buse a endocardial curhim.
 - E delects of endocardinal cushim. . May be combined

NEAL 116 * BLOOD SUPPLY OF ESOPHAGIN ARTERIAL SUPPLY PART OF ESOPHAGIUS > 9mlenior thyroid Artery Cervical

Esophageal branch of descending

Thoracic thorade Annay - Grondilal Artelles

Lelt gartine Artery Let Gulerio Phieric Artery

gaythic veing

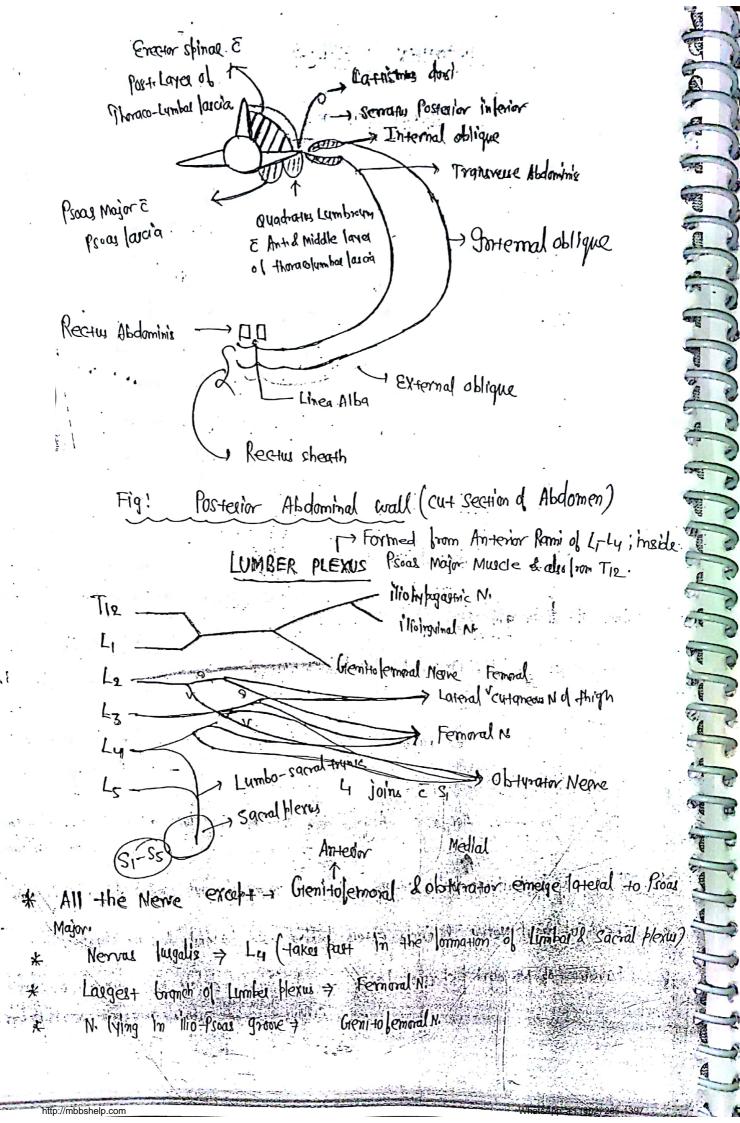
VENOUS DRAITVAGE

Inferior thyroid wine

Azygou vonu

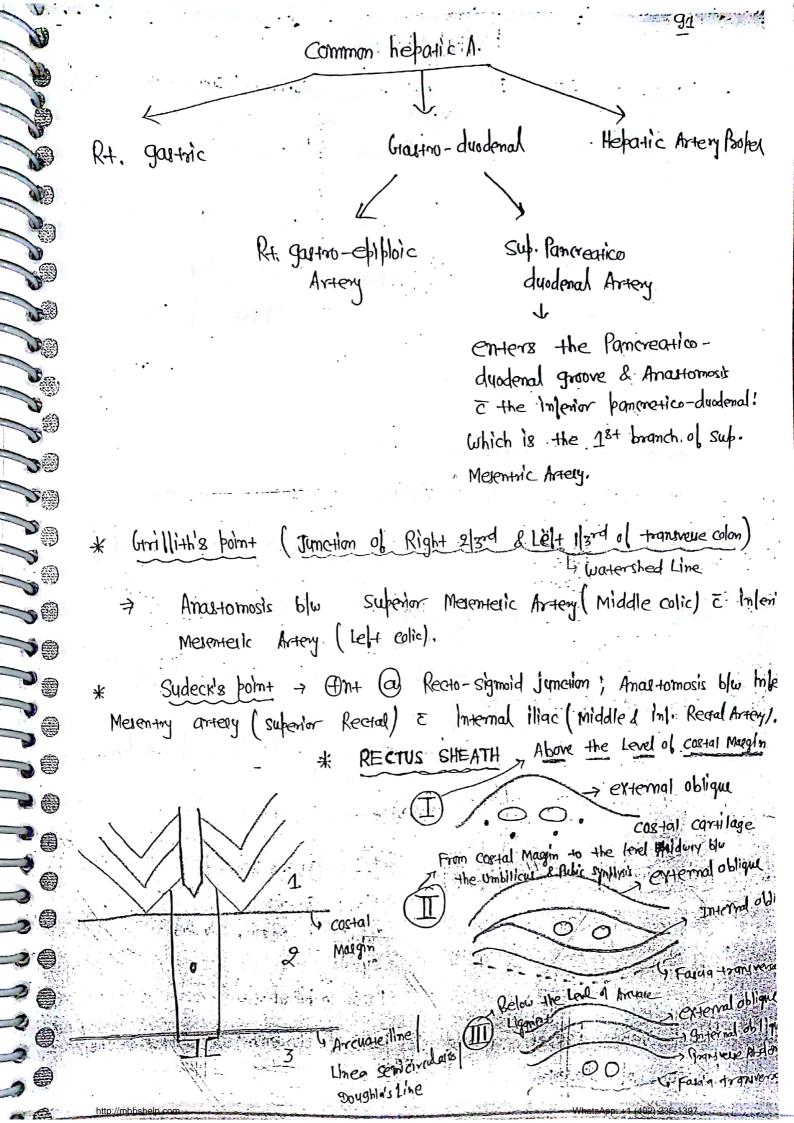
DITAPH RAGIM Origin = Vertebal COS-tal Sternal 1 W is Rt. & Lt. crus; Inner aspect of A B Xiphaid process . ii) Medial arause Ligament Lower 6 Ribs. (Thickening of Psoas lauda) 111) Lateral arrupte Ligament (Thickening of Ant love of thereon lumbas levoia) gusertion => Central tendon. caval opening a the level of To verieboal Passes through the "central tendon of Diaphras Openings of diaphragm : Part of diaphragm 10 gre ; Rt. Himenic Neive Central tendon (Alims 1: · Mu cular fortion derived Esophagu c Rt. & Lt. vagus TIO from Right Cru RQ Aorta C Azygow vein & thomacic duce · Blw Right & Lelt cru TIE (Posterior to diaphagm, The Symbathetic chain enters the Abdomen behind Medial Arruane Ligament The Subcostal Neive & resselve enters behind - Lateral Arruane Ligations. Foralmen of Morgagni | space of laney - A Small delect blu sternal of costal Origina vi the subering eligations sends on as

the abdomon through the gal



Abdominal Aorta & H8 branches (2,3,4,5) Terminal branches at Ly - Common iliacs Ventral branches In letion Meximals Coeliac trumk (T12) Superior Mesentaic (Li) の意 Supplies the brieght HInd gut. Midgut Lateral branches all in Pairs. Renal Middle Supra-renal Inlexion phrenic Dorsal boundies **5** → . 1 Median Sacral 4 Pains of Lymbal alteries NUT Cracker signs relei to > Left Renal vein. L5 Vertebrae is subflied by illio-lumbar artery branch of posterior division of Internal iliac Artery

Foregut => extends from Mouth to when hall of and has of duodenum who the opening of the bileduct Also includes Liver: Pancrear & splem. extends from Lower hall of 2nd hart of dudenum Midgut >> to Rt. 2/3rd of transverse colon. extends from Left 1/3rd of transvoye Colon to. Hindgut => Anal comal. coelic trunk Left gastinc A. - Splenic A Common hefatic A Branches > · Runs along the 3 branches. 1 Pancreatic branches lessel curvature 3 Short gastric branches In the lesser omentum 3 Left gastro epitibleic A. & anathomoses E Rt. ? Ryns along the Superlar bordy gaithic artelies of body of fancrease to enter the hillim of splem. - Lies in Lieno-Renal Ligamens. "Artelia Pancielia Magna" => Branch of Shenic A Posterior gostnic Artegy" > Branch of Sthemic A



Portal vein

Length => 8 cm & Formed by Union of Superior Merentric velon & eplenic & velon behind the Neck of Pancieuse.

i) Subra-duodenal part => American & Right => Bile duct

Anterior & Let+ + Hebotic Interny
Posterior => Ive separated by
extension => commen,

lis Retro-duodenal balt >

Anterior & Right > Billeduct

Anterior & Left > Grastro-dioderal &

Posterior > grc

in, Infra -duodenal part =>

Antendor > Neck of the Pamareaux

Posterior > grc

Tributeiles of Portal vein > Left gartic Velni,

Right gastric Superior pancreatico-duodenal;

Cystic

Para-umbilical venu

* Portal Vein basses behind 1st part of duodenum; so; divided on the

Location of dyodenim,

> Formed by Union of Cystic & common helath 4 Gall bladder > Lies on the Interior surface of Liver close revid+r ⇒ 8cm related to segment IV or the quadrate lobe **i**> Subra-dyodenal part => Hepatic Arteny lel+ > Postellor= Portal vein Retno-duodenal Part > 117 Left > Graytroducenal A. Pasterior=> gvc Infra- duodenal part 1115 Anterior > Head of the Pancrease. Canal of Heing Intrahebatic bile ductule 17 Part of outflow system of examin bile products from the Liver, Superior Mesentelic Artery Interior Panciecatico - duodenal A. Branches & ilial branches Jelynal Middle colic Colic Ascending branch ilio Colic Descending bognet Ann Cecal Post cecal Alfendicular Blied - Supply last past of ilium, d>

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Recyment appendiculal Anteny > Branch of Appendicular Post, ceral Arriva appendicular Arrivay of SHESHACALAM Accessory Branch of Past coal hoppy Inlepior Mesentelic Arteny branches. let colic Signaid branches Superior Rectal auteries (continuation of Inf. Mesenteric A.) 9n/. Pannreation-didenal A Superior Melentelic Artely in Odumal Silical branch Middle colic - Vasa Reet, gn enor Melenteric A -> Malginal borry of Drymmond Ry, Colk Am cecal glicalA alio colic Ablanditules > Signold br Superior Rectal Aires

Blood vessels Related to Parirease => Along the Superior border of the body -> Splenic Artery > Splenic vein Behind the Body -> Sup. Mesentaic vestels on the Uncimate process Portal voln. Behind the Neck of Pancreaux sufmaduatemal fact of Rivial very g blenic A gn/raduodenal Pal+ -) 8 plenic vem of Portal verns inf. Merenteric veim. sup. Rectal : vein (Sup. Megentic wiels Inletion vena cava Formed at 15 by two common iliacs. ⇒ Common iliaes Tributeries Rt & Lt. Remal R-1 Sugranemal R-f. gonadal Hebotic veins galerion phrenic vers 3rd 8 4th Lymbal very

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ANTERTOR ABDOMINAL WALL

W

Layers: -> i) 9km; Suberlicial Farry Layer (Fascia d competer lascia)

li) Suberlicial lascia; Deel Membranus Layer (Fascia d scarpa or competi lascia)

lii) External oblique Muscle; Suberlicial to 9ear scarpa)

liv 9nternal oblique Muscle;

vi Trans versus Abdominis Muscle;

vii Fascia transversalis;

vii) Extra peritament tissus;

viii) Parietal Layer of Peritament.

* Deep Fascia is absent in the Anterior Abdominal wall to allow the buldging of abdominal wall after Meal; during Pregnany etc

Inguinal canal (Length = 4-6cm)
4 extends from deep inguinal Ring to superlicial inguinal Ring.

Ant. wall =

Boundalies

In its entire extent > External oblique
In its lateral taut > Internal oblique &

transverse abdominis

Posticial =>

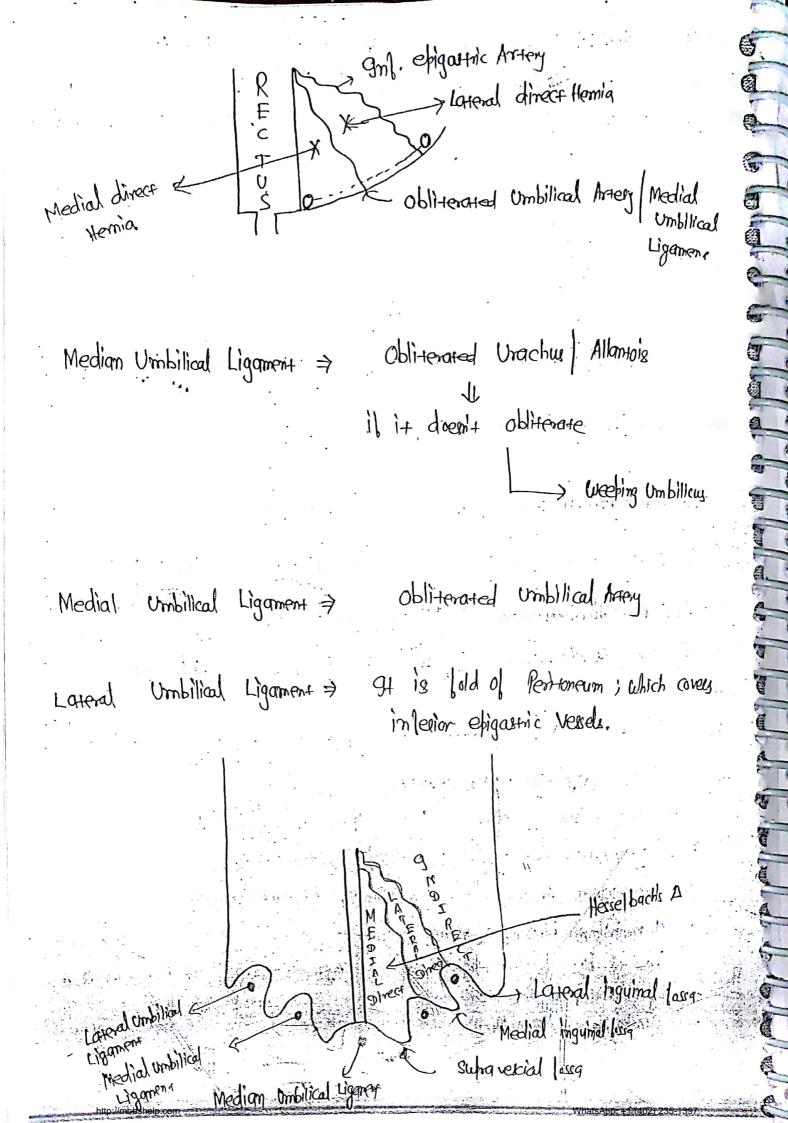
9n its entire extent -> Fauda togritheralis

9n its Medial part => Original tendan

Rool ⇒ Conjoint tendon

Floor => external oblique & Inguinal Ligament.

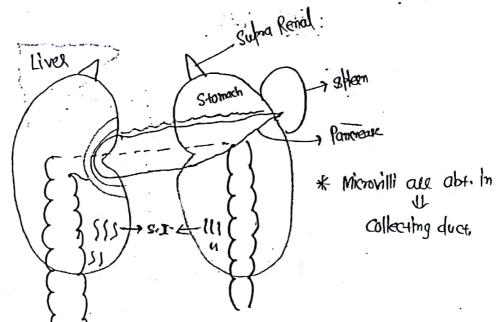
delect in External oblique Abonemosis, Superlicial Ingulnal Ring delect in Fascia transversale, Deels Inquinal Ring * Conjoint tendon is formed by Furion of Aponeurotic fibres of internal Oblique & Transversu Abdominis. 2000 covering of testis NO external spermatic Fasoia - derived from external oblique Aponeurosis, cremastric Fascia > derived from cremaster Internal oblique 94 derived from bascia transvousable J 9n-ternal Spermatic Fascia => 2 derived from Peritoneum (Mainly Parietal) Timica vaginalis > 7 1 Covering of Connective Hesul Albuginea > Tunica 3 1 Tynica vasculosa > covering of Blood versely OF SPERMATIC CORD CONTENTS Vas deferens (Queru deferens) Artery to the vou (branch of Superior vertical Artery) Cremastric Artery - Branch of Inferior ebigation Artery Testicular Arrey - Branch of Abdominal array Pampinlom plexus of very Genital br. of genitalemonal Neive Mmemonia & Pills Don+ contribute to Lymphonia from the terris brood sex Lile: Sympathetic New librer



- Medial Border - Lateral Margin of Rectu sheath Hesselbach's A (Linea Semilumaria); の Superolateral Border -> Inferior epigastric Vessels. Inferior Border - Inguinal Ligament (Poupart's Ligament). 4 KIDNEY of both kidney are same except Rt. Posterior Relations oli Kidney is Related to only 12th Rib; while left related to both 11th & 12th Ribs. 11th] Ribe Cateral travate Ligament Medial Arcuche Ligament Subcoral N. allio-typogostric N. > Psoas Major Quadratiu Lumborum glio-inguinal N. -K Granivelle Abdominis A Holdsterri Left Kidney both Let & Right venous drainage of Kldney - Renal Velne drains Into 9vc Lel+ Renal Velm 18 Longer & basses In front of Abdominal Aorta; behind. Origin of Superior Mesenteric Artery. Left Renal vely also receives Lt. Inferior phrenic vely Lt. gangdal vem & Lt. Subvarienal (Advisal gland); Each Renal telm begins beneath the true capsule as "Stellate vein".

Anterior Relation of =	A Right Kidney =>
_	Rt. Subra Renal gland
•	Lives and part of duodenum
. :	Ascending colon
	Hepatic lexus of the colon:
· -	Small griterine
(B) Lel+ Kidney	! → >
(B) Zeli (Marie)	· - Lt. Subra Renal gland
	— Stomach
· ·	- Spleen
	- Shenic Arteny
	- Panareage
	- Splenic llexue
	- Descanding colon
	- Small grotestine
	STOMACH BED
Formed by =>	
- Lt. Subakenal	
- Lat a kldney	HOR CHANGE TO THE CONTRACT OF
is in a subsection of the second	
- Splenic Artery	
Panadal	
Transvers Colon	
Left ou of diaphragn	

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*OO (NEEJIP) BELLINI

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2

S

Papillary (collecting) ducts are Anatomical structures 11 DUCTS OF BELLINI".

of kidney; Klas

00 * (NEELIC) CAUDATE LOBE OF LIVER > Anatomically situated on Posterior surface of Right 1 it belongs Physiologically to both Right & Left lober blc it Receives blood brom Right & left hebatic arteries; Right & Left branches of Portal vehi l dn bile into both Right & Left hefatic duct. Thu it is considered as "I physiological Independent lobe!

"Segment I

SPACE OF DISSE -> Kas " Perismusoidal space".

8 pace blu Helpato cytes & Helpatic Simuoids,

- exchange of Substance blw hebatogues & blood takes place in the space of Sisse
- Microvilli of helphocytes extend, into this space; Tes surface area for Absorption;
- Major constitutes of space of Disse > Blood plasma

RENAL VASCULATURE => Each Kidney is supplied by Renal Artely (Branch of Abd minal Aorta) & 18 drained by Renal veh to Ivc;

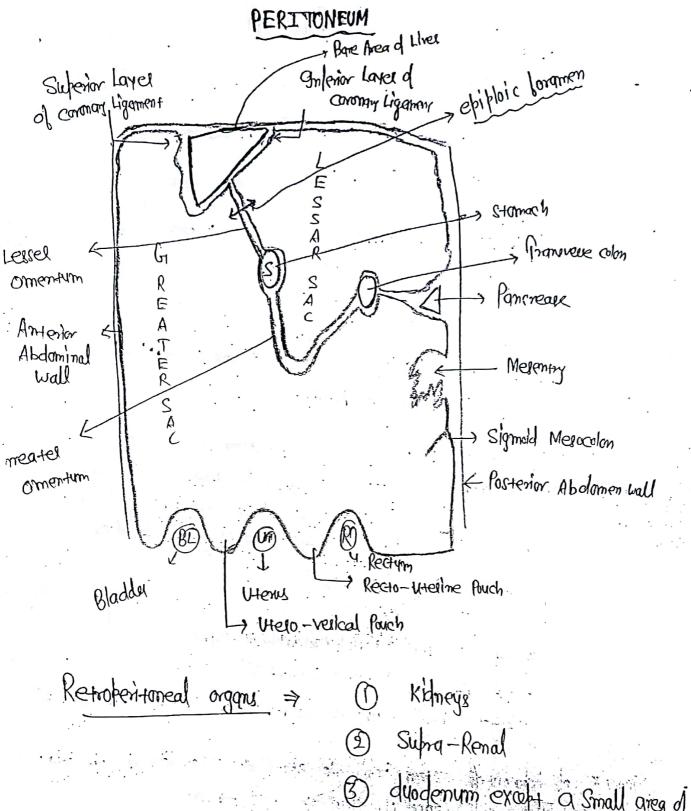
Rain Remal Arrieny is longer li baises behind ive;

Renal Artery divides Into -> A Postellar division > Supplies Patterior segmi

B) Anierlor dividing > 4 branches - Aprical : Upper Americal Middle Americal Lower Branches of Renal arrivery are and arrivering

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3) duodenum exact. a small area of the Ist & 4th part,

9 Panciease;

Ascending & Describing Colon

6 Aprilo & gro D. Welers.

+ of Hissue; which is formed by the double lold of Peritoneum that attaches the Interfine to the wall of Abdomen, duodeno-jejunyin Hexar. Root of Mesenty > extends from 9-1 lexor (Left torquireue brow of L2) to Right Samo-iliac joint. By Structures crossing by the Root of Mesenty !=> 3rd Part of dyodenum Arrita 9vc R+. Psoas Major R+, Uneter, H K/as "Foramen of winslow" > Passage b/w greater sacd level sac Epiploie Joramen (Boundariei) Lesses Omentum containing heratic arrey; Paralic Anteriorly > & Bleduct IVC. rostenmy Rt. Surrakenal gland Body of The Vertebrae Caudate lobe of Liver (Caudate process) 7 19 part of dudenum Length of epibloic foranen > 4-6 cm

Posterior gastric ulcer May bellorate Into the Lessal Sac (omental buses). The leaking build basses out through epiploic boramen to Reach hepatorenal bouch. Sometimes; in these ases the epiphoic boratner is closed the lesser sac become distended & can be by Adhesion; so; through Leasel Omentym, drained by a tube passed * Lt. Bateral blane Rt Lateral plane Rt. Hypochandsium Transpylonic plane (of Adison) Epigutolum <u>3</u>) → Lt. Hypochondsium 3) -Rt Lymbal Region **b**) → 3-1 connects iliac creas+ @ Ls forteb Umbilicu Lt. Lymbal Region 6 7 Level (upper border) Rt. iliac Fossa (₹) → · Passes Anterlary through tips of 9th astal * Hypigastrium 3) cartilage & Posteriorly through Law border of Li Lt. iliac Fossa. **(**) → venebrae. organs (a) this Level > Hilym of kidney; Pylony of stomach; Beginning of dudenum; Neck of Pancreae; Fundus of Grall bladder & origin of Superior Movement's veride Renal Angle => Angle blu Last Rib & outer border of crector spinale. Umbilious => Lies blu 1z & Ly vertebrae Highest point of illac meast lies @ Ly rettebrase. The supracristal plane is Indicated by a Horizontal line through the highest points of iliac crests 18 watershed; Lymph blows wounds to drain into Axillary Lymph Umbilieus Nodes , Below the level of Umbilicus lymph blows downwards to drain lines Swellicial ingunal Lymph Mode

Rt. V. Lt. V

Let 1 Pulmonary Ductor Avria

Chernel

Cher

* Uterine A. & ovarian A. together form Arabate Artery Anastomoxis; which the give oil the Radial atteries & linally branches into based & spiral Arteries

Uterine Artery -> Arcuate artery -> Radial Artery -> spiral Artery

- 1) Obliterated Left Umbilical vein > Ligamentum tenes
- 2) Ductus Venosus -> Ligamentum venosum
- (3) Foramen ovale > Focsa ovalis
- (9) Ductus Arteriosus => Ligamentum arteriosum
- Distal fact of Umbilial Artery > Medial Umbilial Ligamon
 - (6) Non-obliterated bout of umbilical Artery > Superior restant Artery

 Proximal part of umbilical Artery

(

ં)

8

9

(9)

(1)

*

develops from Foregut { At birth capacity = 30ml; Adults 91 has Rt. & Lt. Sulace; Ant. & Post, bonders 1500 2000 ml 1St Kotation Along vertical Axis 1=> ί> Lelt Sulace becomes Amerion & the Right becomes Posterior The America border becomes -> Right Posterior birder becomes + Left 2nd Rotation Along Antero-posterior axis => ii) Pylonus comes to lie @ a highes level The left border grows rapidly to form greater Sac dying Rotation the dorsal Mesogartisium also turns to the left; they forming lessel sac Derivatives of ventral Mesogastrium :> Falci John Ligament Contains Ligamentum teres Paraumbilial vein ii) Lesses comen-tum Superior & Interior Layers of covering Ligament, iv) Rt & left, triangular Ligaments.

DEVELOPMENT OF STOMACH

1

0

The Main Support of Liver 187. Hepatic vein draining Into guc

Delivatives of Dorsal Mesogastivin =>

- i) Gartio-Splenic Ligament > Contains short gastic vessels
- 11) LinoRenal Ligament => contains expenic veuels & tail of
 the pancieur
- I'm Greater O'mentum
- ivs gastro-phronic Ligament.

Blood Supply of Stomach '=>

Along the Lesser curvature -> Lt. & Rt. gartine Arterier;

Along the Gireater curvature -> Lt. & Rt. gartino-epiphoic arterier;

Funding -> Short gartine Arteries

Venous drainage :=>

Lt. & Rt. gartic veins - drains into the bortal vein;

Lt. gastro-epiploic & short gattic veine - draing into splenic vein;

Rt. gartro-epiploic vem -> drains into superior Meremenic vein,

NEET - The pretyloric vehi of Mayo is a tributory of the Rt. gastic vehicle is the external Landmark of Gastrodyidenal Junction.

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Development of Pancrease

Sorral Pameneatic bud lorms -> Upper part of head; Near Stail of the Pancreage

enteral Pancreatic but lorms -> Lower part of head & Uncinate brocess

Annual Pancrease is dit déléctive Migration of Ventral Pancreatice bud.

Non-Twion of two; buds Result in > Pancreatic division,

Donsal & ventral Mic congenital Anomaly of Pancrease
buds.

Main Pancreatic duet Duct of wirzung 17

derived from the duct of dorsal bud; ventual bud & the anathomosis blu them.

opens @ Major duderal papillas; 8 to 10 cm from the Mony

Accessary Pancreatic duct Duct of Santonini =>

- borned from duct of dorsal bud

Opens a Minor duodenal papillar, 6+08 cm from the bylony

Accessory Pamareatic Hissue May be lound in '=>

(A) Wall of Stomach; Duodenum; Jejunum or gleym

(B) Meckel's diverticulum.

Duct of Dorsal bud guodenum guet of ventral bud _ Bileduce 2 dyas Anathamosis Accessory Pancreatic duct Mignor dyodenal Main Pancreatic duct papillal Development of Panameatic duct. - Subraduodenal batt Retroduodenal bout galag duodend halt Malm Pancreatic duct Paut of Bile duct in Relation to diaplinage

SPLEEN (1,3,5,7, 9,11,10)

- 1×3×5 dimension of spleen (in Inches)
- 7 ounces of w+ (250 gm)
- Ont blu the 9th & 11th Ribs
- Long axis of the splean is directed along 10th Rib
- Spleen Makes an angle of 450 2 the Hz Hame
- 91 projects into the greater sac
- .. Superior border of spleen is Notched.
- * 9mpression on splean a> Gravetic
 - b> Renal
 - c7 Pancreatic
 - d> colic
 - e) Diaboragmatic
- * Ligaments of Spleen a) Gastro-Splenic
 - b) Lieno-Renal
 - S Phrenico -colic
 - Klas "Sustenticulum Llemes!".

 extends from the diathragm to splenic
 - blexine of colon
 - Supports the Splein
 - prevents the downward displacement of

can be found in + 8bleen Hilum Tail of Pamerease Delivatives of dosal Mesogaiting Broad Ligament of Uterry Spermatic cord. * PALS (Periarreriola Lymphold sheath) is a histological feature of :> white put of the splan RO TATION OF GUT Superiorly bre-arterial segment lies -PPPP gnlerionly Post- arterial segment lies -18+ Rotation (90°) \Rightarrow _ the bre-arterial segment lies on Rtiside 14 forms the Small interline (as it Returns book to the Abdominal carity and Rotation occues 2nd Rotation (got) Post-arrevial segment lies substituty ceam lies in the mulhe

illi) - 3rd Rotation + 900

Cecum lies on Rt. side - Subhepatic Cecum

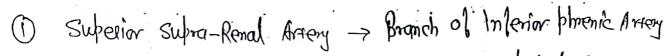
- * Herniation of Midgut loop occurs by > 6 weeks
- * Herniation of Midgut loop Reduced by > 10 weeky
- * LNOTTATIONS *
 - 1. Mixed Rotation: The bre-arterial segments alone rotates by 90°.
 - The Post arterial segment sotates by 1800 and ceaum lies in the Midline behind the stomach,
- 2. Non-Rotation 1=> 18+ Rotation is Normal
 - Fulther Rotation doesn't occur
 - cecum lies on left side
 - Left sided colon
- 3. Revelse Rotation (=> 181 Rotation is Normal
 - and Rotation occurs by 180° in the Reverse direction
 - Transverse colon lies behind small Intertine

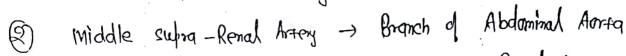
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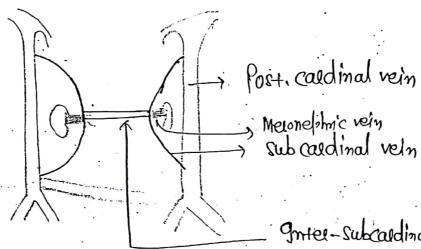
HIND-GIUTI (Vyachus Fishula > Patent Allamois) Part of the hind-gut below the attachment of Allantois Cloaca The Uro-Rectal septum divides the cloque into g 🔮 Urogenital sinus Rectum & Anal canal Amerionly Posterionly The cloacal Membrane divides Into Urogenital Membrane Anal Membrane Anteriorly. Posterionly Allantois Hindgu cloaca MesoNeffinic dua a cloacal Mempare Primitive. unogenital sinui Anal Membrane Vrogenital Membran smus

Blood Supply of Supra-Renal gland :=>





Inferior subra-Renal Artery -> Branch of Renal Artery (3)

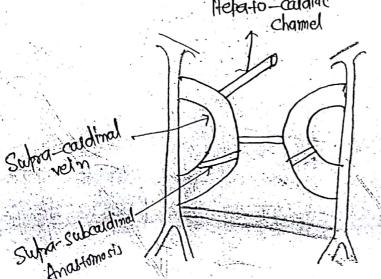


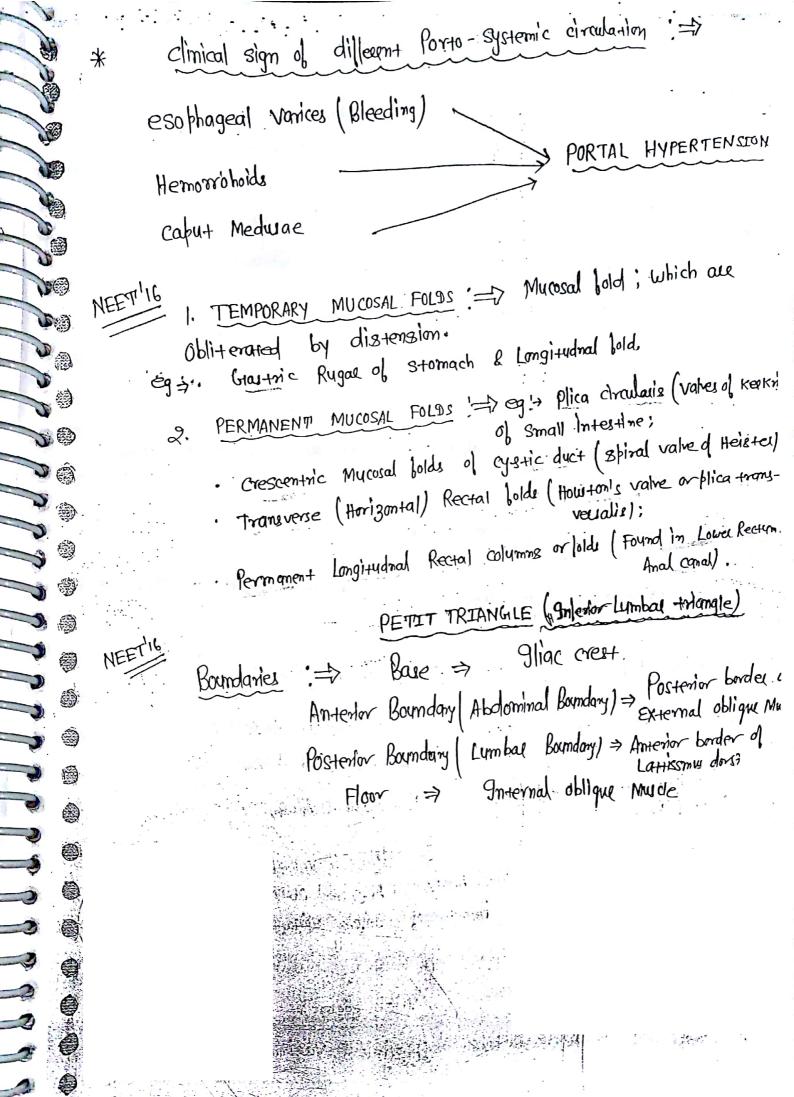
groter-subcardinal Anastomosis

derived from Rt. Meso helimic vein Rt. Renal velm

derived from - Lt. MesoNephric win Lt. Renal veln Lt. Subcaldinal vein Hela-to-audiac

Intersubcardinal Anartomosis





PELVIS

* Structures winding Around 98chial spine >

Pudendal Neave

Internal Pudendal vessels

No to Obtinator Interney

they leave the belies through greater sciatic foramen and ented the beginnerm through Lesses schark longhen.

The tendon of obtinator internily emerger out through lesser scientic foramen.

Blood supply of Pelvis :=>

Internal iliac Artery - Small telminal branch of common iliac A.

Anterior division

Superior Vesical Arreny

Inleier vertical Artem (Supplies the prostate)

Middle Rectal Array

Uterinal & Vaginal Artery

Interior gluteal Arrey

Internal Pudendal Artery

Posterior division

Superior Gluteal Artery

- Lateral Social Many

- 9110-Lymbal Artery

Obturator Artery; Chile Accessory (Aberrant) Obturator Artery 18 the It sufflies to veriebrae

branch 0 Inlerior ofigatine Artery

14 is the branch of external Ilian Artery

9 mlerior eliganica Fernoval A

Chamber Iliach

In lemale it is Replaced by !! Uteline & Vaginal Artery!

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URETER Length > 25 cm (10 inches) completly Retroberitorned organ. Abdominal Part Post. Relation -> Transverse process of Lymbas process; Psoas Majori Gienito- lemoral Nerve Rélation of Right vreter > 3rd Part of duodenum 9 - Rt. colic vessels - ilio-colic vessels - Root of Mesentry. - Gionadal vesels - Terminal part of ileum ATH. Relation of left water -> Left colic vessels Sigmoid vessels Sigmoid Mesocolon Gronadal verils Pelvic palt - goes backwards along greater Sciatic Notch als = Internal iliac vessels behind it. thing anteriorly at ischial spine & enself the Supplateral angle, of linguie of bladder In Maley: 11 the united is crossed by vai deleu 9m Femaly; the uneter is crossed by uterine a

Blood Supply of wreter '=> At 1+8 beginning Renal Artery; Abdominal Agrag! (2) below it (3) Gionadal Artery Little below it At the Pelvic Inlet + Internal iliac Common iliac (Ŝ) Near the base of bladder -> · Superior verical Inferior veride Middle Rectal of uneter 1=> Diameter = 3mm, Constriction Pelvi- uneteric junction Coossing of the belie bring bilurcation of common illacs crossing of external line (2) Crossing by the ductus difference | Broad Ligament Entry Into the bladger (Namowest part of unever) Klas "verico uneteric junction" Opening into the Trigone (\$) URINARY BLADDER Retropubic space of Retzius: da Lier behind the Public symphysis Yeside venous plexues On-lains except - Trigone; Rest all are derived from "Vericoure that canal" (endodermal) 18+ desire of Micharation usually appears as 150 -250, m) filling

OVARY

Suspended brom posterior leafler of broad Ligament by
Merovalium

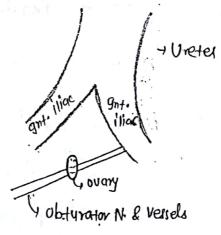
- Attached to cornu of the uterw. by Ligament of ovary and Lateral believe walls by suspensory ligament of ovary I gallundibule-believe Ligament.

drains into the para-gorotic Lymph Nodes.

OVARIAN FOSSA

Boyndailes ->

Superiorly -> external iliac vessels
Posteriorly -> Ureter & Internal illac vessels
Laterally & the -> Obtunator Nerve & vessels
Illoor



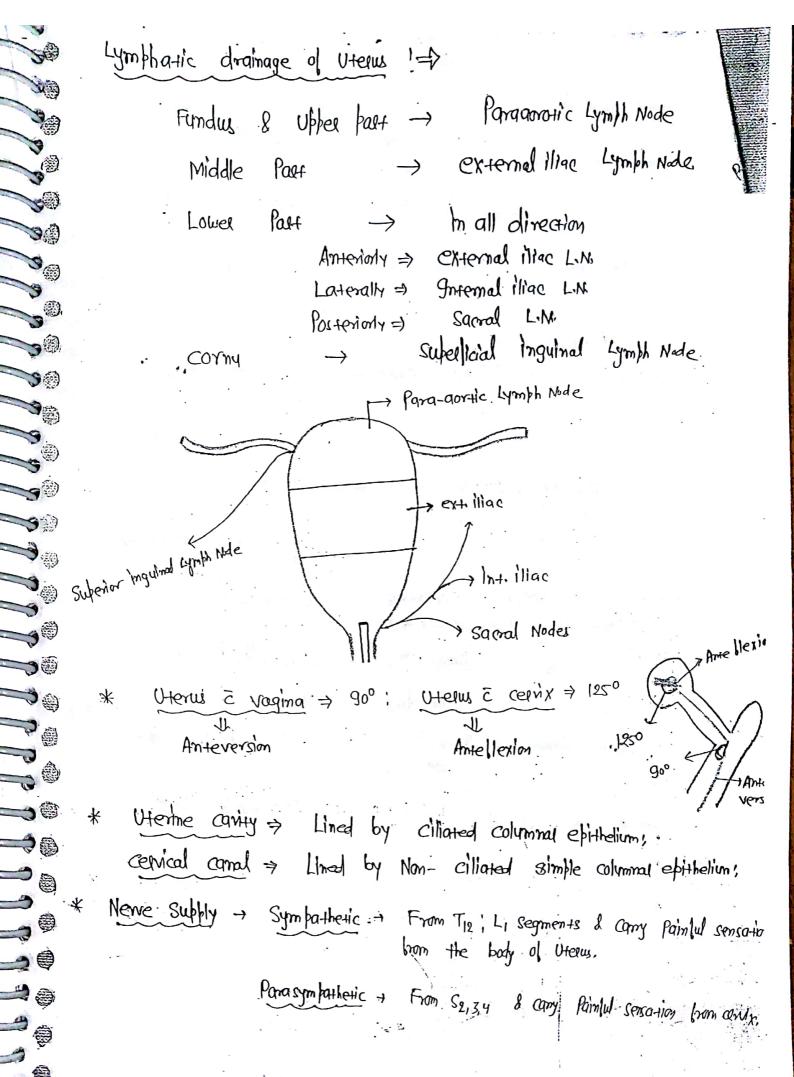
BODY CERVIX (2.5 cm Long)

Round Ligament of Uterw is attached to > i> cornu;

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Base of the bladder !=> K In Males > Separated from the Rectum in the when hat is by Rectavesicle bouch Related to vas deference, Ambulla of vos, seminal vericles & egaculatory duct. In Fernales _ Related to Suma-vaginal part of the cervix & vagination Faicia of Dennonvillieus => extends from Rectoveride bouch to the Perineal body Separates the Rectum from Seminal vesicle & prostate in Males N. Supply : Sympathetic > T10-L2 * Li Contracts the Sphinciel & Relaxes the Mude Palasympathetic :> S2,3,4 Contracts the Mucles & Relaxes the sphine epithelium of Bladder Mucosa 1-> Transitional URETHRA Male unethra on Section.) At bulb - Irabezium In the Penis -> Harizontal slit A+ base of glans > Growthed "T' shape Art external unethral mility - vertical slift Epithelial Lining opening of exactatory duct - Franktional -1 Colymal WhatsApp: +1 (402) 235-1397 Middle of gland ://mbbshelp.com+0



	PROSTATE	
	FALSE CAPSUL	Б
05+0+ic	<u>→</u> 000000000000000000000000000000000000	
now by	TRUE CAPSUL	(Thyroid)
	Prostate	Thymid
		s, , ,
- Prostatic verous plexues communicates $\tilde{c} \Rightarrow$ vericle verous plexus		
	11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
١.		Dowal velond finis
	- this buther communicates ?	vertebral venou plexu
		valveless communication
am spread to vertebral column laxuel Batson's plexity!		
	- Medial Lobe 18 More prone	to hyper-rophy (BPH)
	- Posterior tobe 18 More prone	to Cancerous Changer (Brostatic Cancer)
	- Anterior lobe -> Devoid of a	llandular tissur hence Adenoma seldam
	Prostate => is also Klas "Fibr	- Muscular - glandular organ".
4 Sw)	aces	Paille 10 - 30 - 1 2
tenon	Costellor 2 Inlevol	Peripheral Some => Posterior Lobe?
VIIIVY .	1 00 ICINI	Helal (Central 3one) Median Lobe >

- Sebarated by ies behind Public Symphysis; Fascia d Denonvillies setapated from it by extra from Return entoned for in Remobilic - Palpated on PIR examination Space (cave of Re+3ins)

PROSTATIC URETHRA

Shows an elevation in Midline > Urethral creast

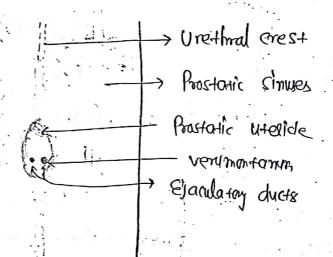
Form det continuation of Progond Much the bladder.

- Another elevation in the Middle of Unethral crest

VERUMONTANUM COLLICULUS SEMINAL

- Opening of Prostatic utricle In the centre and ejaculatory du on the either side of verumontonum

- Opening of Prostatic Gland Prostatic Sinues along Pasteriora



Fig! Prostatic Urethra > First Q the junction of Amt. 1/300 Post. 2/3rd of glorid

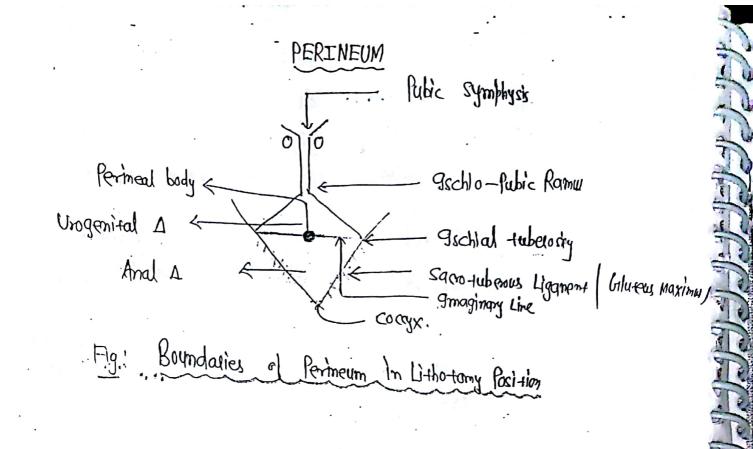
* Corpora Amylocea (Amyloid bodies) -> Prostate

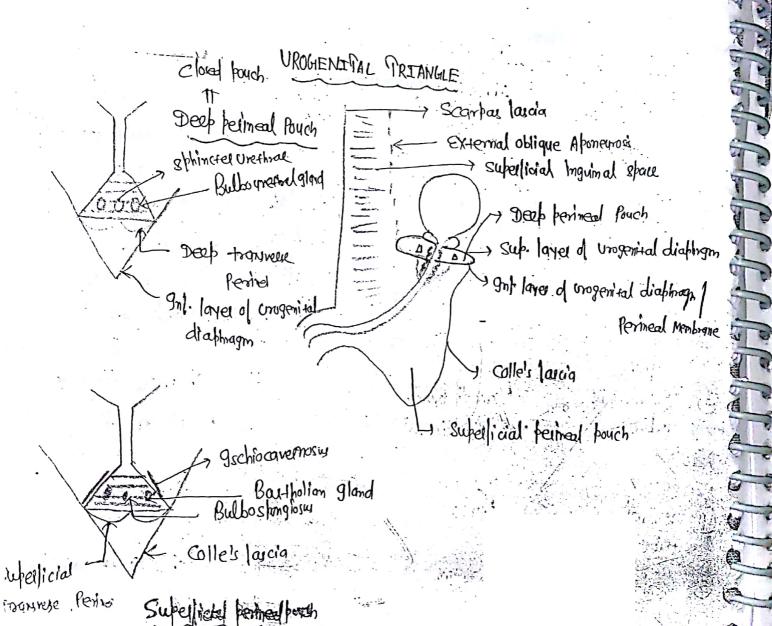
Corpora Arenatea. - Pineal gland

RECTUM Length - 12 cm Sacculations; Appendes epiphicae & Taenia coli are absent. Ly characteristics of Large intertine Horizontal folds plica transvershis 1=> -> R+ wall -> 12-14 cm Above Anal comal grid "4 L+, wall + 7-5 cm Above Any 3rd , (value of Houston) Anterior & Right wall - At the Upper end of Rectal Ambulla; Above Anus Development of Rectum !=> of Rectum Above the hawten valve Il developed from Hindgut part of Rectum below the howen value If developed from Cloaca. * Waldeyer's Fascia > connects Rectum to Sacrym. B. Supply of Rectum :=> Or Superior Rectal Artery (Major supply) => Continuation

*

of Imperior Mesentelic Arten by Middle Rectal Antery 7: Branch of American division of internal iliac Arrey; Median Sacral Artery > Branch of Aorta venou drainage on Suberion Rechal veno prainy Into Interior Mesenteric b) Middle Rectal vely -> Drains Into Internal Iliac very; Median Sacral rely > Joins Let Common illac rely.





Deep Perineal, Pouch 1-2. Sphinciel Unethral Muscle Jemmon mo/9) CONHENTS 色 Deep transvelle Perinale 图 Bulbourethral gland cowper's gland 9n Males ≥ 1> Dorsal Newe of Penis; ľ'n Membranous Unethra Miz 8 Superficial beineal Pouch 98 dio - cavernosy Contents (Common in 017) Bulbo - Spongiosy ili, superlicial transveye Perinei Bartholin glands | greater vestibular glands Root of Penis (Bulb & cryra); Posterior scrotal Nerve; Urethra Females => Makes Pudendal Nerve (Mixed Nerve) Penneum > chiel Nerve of Anises from Sacral blexus (S253), Ten Muscle converge > PERINEAL BODY Amal Sphimetel; External Longitudnal Mucle coat of Anal canal. of 67 Bulbos bongiosu; transveus Perinei: Superlicial di transveue Perinei; 900 27 67 Levator

Holden's Line > A line drawn Laterally from Pubic tuberde; Ly Urine doesn't cross this line dit firm attachment of Fascia late along this line of Prostatic Wethra > 4cm (Most dilatable but of male of Membranous wrethra > 1.5-20m (Narrowest part of viethra) Penile Urethra > 15-20cm Length of Least dilatable part => External Unethral Meatur Membranow unethra Length => 38 mm (3.8 cm) IS Anal canal > Dentate Pectinate Line > Represents the Lower end of Athal Columns White line of Hilton > Represents the Muco-cutameous junction of Anal comal Extravasation of Unine Rubtule of Unethra In the Superlicial berineal Pach Unine collects in the scrotum, Penis & enter the superlicial Inquinal stay; Urine doesn't cross the Holden's Line; ALCOCK'S CANAL :=> k|as " fudendal canai" * It is bascial caral in the Lateral wall of ischiorectal force; enclosing Pudendal & Internal Pudendal Vessels (Argeny & Veins);

Stace blu obturator faicia & Limate laicia.

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MESORECTUM (MESENTRY OF THE RECTUM) & 9TS CONTENTS :=> * Superior Rectal Artery & its branches; Superior Rectal vela & Tributaires; Superior Rectal & Pararectal Nodes and Lymphatics along + Branches from the Interior Meienteric blexis & descent Superior Rectal Artery; to Immervate the Rectum SOME EXTRA EDGE bubernaculum in Male formu > bubernaculum Testis : In Female lorms > Ligament of ovary; Royal Ligament of view. Differentiation of Gental Ridge; Into Lineage of Femaleon gonade i-e ovany or Testis occurs @ 6-10 weeks. By 12 week (13) this differentiation has occured in all fetu. Prostate Analog In Q > Skene gland (Perigrethral gland); Uterus l vagina Analog in 0' > Prostatic Utricle × Lower 1/3rd of vagina derived from > Unogenital Sinus. * Upper 1/3rd of Rectum > covered by Peritoneum on the bront & *變 Middle 1/3rd of Rectum > avered by Peritoneum on the side only Lower 1/3rd of Rectym = Devoid, of Peritonical Assachment.

9SCHIO-RECTAL FOSSA

Boyndavies

- Anteriory - Imaginary line Joining two schial tubelosities.
- Posteriony -Sacrotuberous Ligaments & Coayx
- Laterally Gerhial tuberasity & obturator Interney
- Medially -Anal anal
 - "Rool -Levator Ani
 - Perianal skin
- 1 Pudendal Newel veurels Contents
 - Interior Rectal Nevel words

TRIGONE OF BLADDER

- Lined by "Transitional epithelium"
- Mucosa is smooth & birmly Adherent;
- Uneters opens at lateral Angle of base & internal wrethral orifice

Lies at Abex;

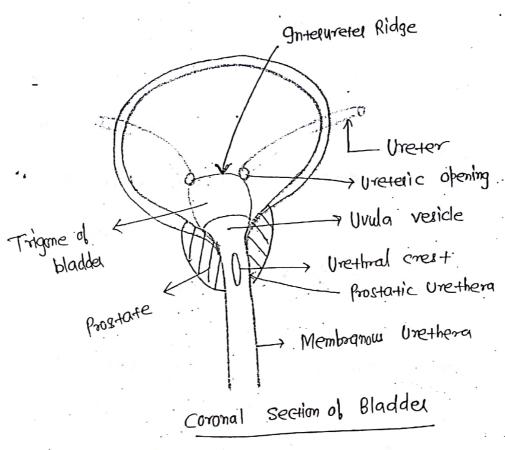
- Trigonal Mucle of bell (Smooth Mucle Layer jut beneath Mucosa) Derived from Absorbed part of Mesomethic duct (wollliam duct)
- 9n the Region of Trigone, Muscular coat Detruor Mucle) is Separated from Trigonal Musde of Bell by "Fascia of waldeyer". QQ

- Layer of Smooth Muicle furt beneath the Mycosa of Trigone.

9+ Replaces " Submucous coat in Trigone Aral".

9ntervreter Ridge => Klas "Mercier's bor" -> Length + 2.5 cm; when empty & 5 cm; when Full

* Micturation centre > cerebral cortex -> Medial frontal cortex |
Brain Stem -> Ponu (Barrington's cortex).



LAYER OF SCROTUM :=> ir Skim;

in Sartos Muscle (Smooth Muscle Layer) -> Continues à collès Fascia of Perineum posteriorly - and Scrapais lascia & camper.
Fascia Amteriorly.

(111) The external Stermatic Facia > extension from external oblique.

(11) The cremattric Mucle > Continue = lacia from Internal oblique,

The internal spermatic Favia => continues T lascia from Favia

*

3

1 9

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HEAD, FACE, NECK

NERVES OF THE PHARYNGEAL ARCH

Mondibular 184 Phanyngeal Arch => Facial Sud Pharyngeal Arch > Glosso pharmageal Phanynged Arch => Superior Larryngeal · yth Phonyngeal Arch >

Recurrent Laryngeal Phaynged Arch > (5th Arch > Disappears)

> Peach half of the lace is sufflied by 14 Merves; 1 Motor & 13 Sensory.

Motor Neave supply > By Facial Newe through its 5 branches

Temporal

3

物質

Zygomatic

Burral

Marginal Mandibulal

(Supplies the blang

Celvical

Facial N. Supplies all facial Muscles except > Levator palpebrae suprior By 3rd CN

Venous drainage of Face >

- (n) Subra-orbital vely
 - 2) Swora- trachled vely
- 3) Angular velo
- (9) + Facial vela
- 3) superliand temporal velo
- Maxillary vein (7) -1 - Retro Mondi bular

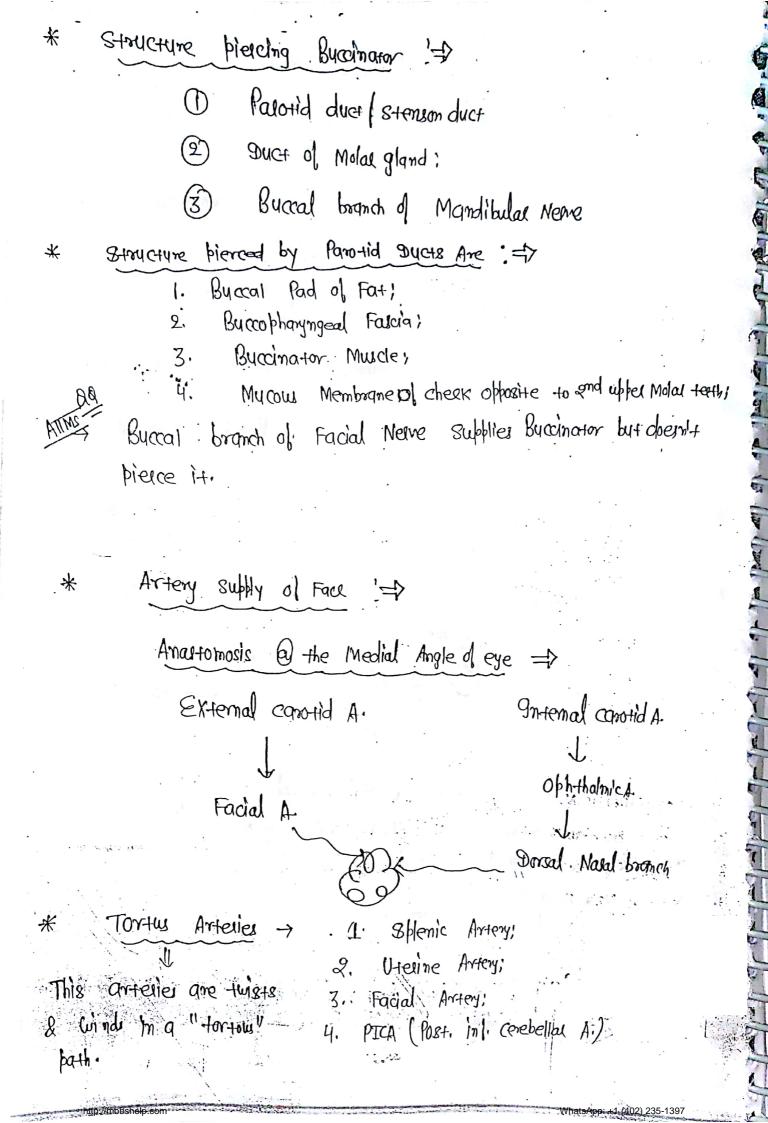
(6)- Common facial vely + 10 4 Postawala vely

(1) - Off Jagulanet + s

> Palotid ghand

DANGIEROUS AREA OF FACE Upper lik & in lower part of Nose Intection from Dangerous Area Facial rein Deep Facial vem Angulal vein Pterygoid venou plexus Superior oph-thalmic vein emissary vely Cavernow Sinu Cavernous Sinus cavernous sinus -> Emissay vein > Pterygoid venoù plexu drainage of Face :=> (I Upper Area >> By Pre-Avricular Lymphatic Paro tid Noder/ schalicial Upper Area > Greeter bart of Forehead; Lateral 1/2 of eyelids; conjunctiva; lateral fact Parotid Nodes of cheek & family Area. II - Middle Area 1-> By Sub Mandi bular Nades Middle Area > Central hart of Forehead; External Nose; when lib ! Lateral barry of Loves lip; Medial hall of eye-lifts; Medial hart of cheek & green faut of Love jaw TII. Lowel Area > Love Area - Central hat d Love like dit.

Sensory Neave supply of the Face '-> is by Trigeminal Nerve through its three division: Mandibular Oph+halmic Maxillary Angle of Mandible skin over exap+ > Supplied by Greater Auricular Newe) Branch of cervical plexus. -> Greatel Auricula N. 9. Mental N. 6. Intra-orbital 1. Supra-orbital N. 10. Burnal N. 2. Supra-trochleau N. 7 Zygomatico-lacial M 11. Agriculo temporal v. 3. Infra -frochleam 8- Zygomatico - temporal M 4. external Nasal No. 5 Lacrimal N. The of Nose & Lower part of Donsyn of Nose" are supplied by this



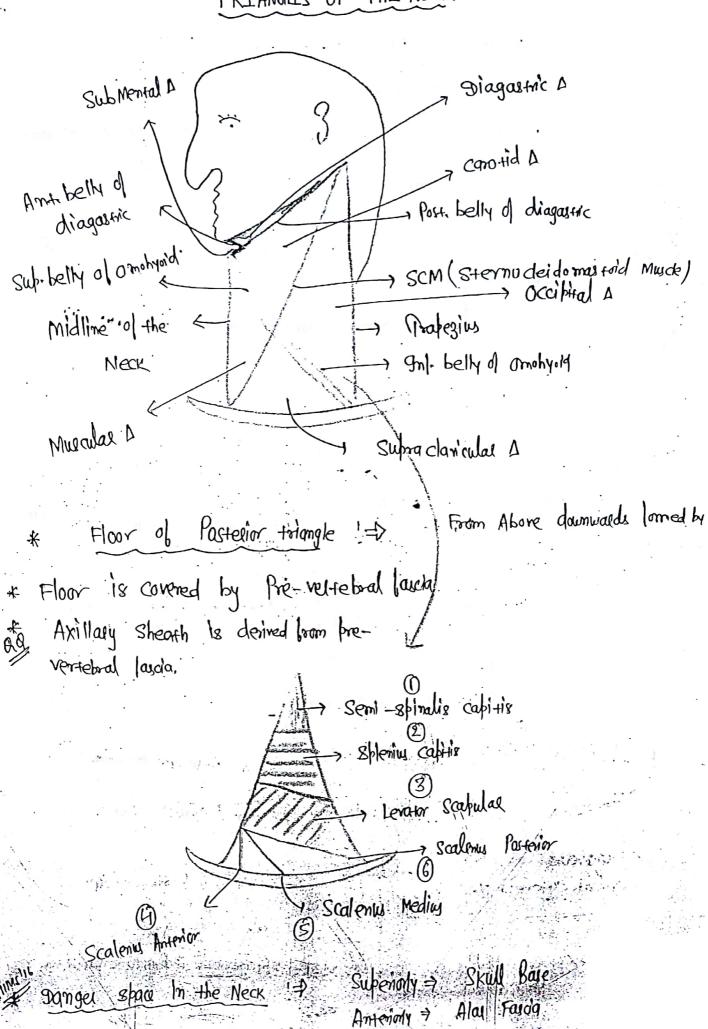
TRIANGLES OF THE NECK

20

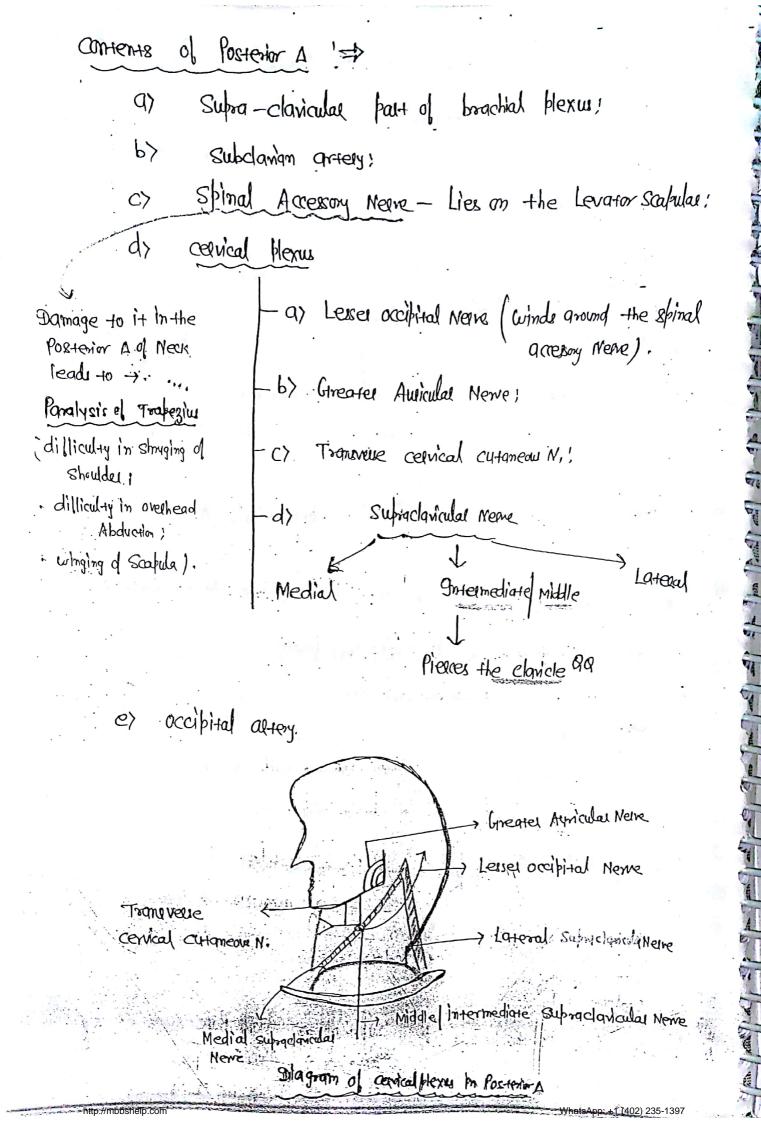
ā[©]

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D



Postpriory => Prevente bal Postoa



Clinical sign of different Porto-Systemic circulation :=> esophageal varices (Bleeding) PORTAL HYPERTENSION Hemorrohoids Caput Medwae TEMPORARY MUCOSAL FOLDS: -> Mucosal fold; which are 3 NEET 16 Obliterated by distension. Grastic Rugal of Stomach & Longitudial bold. PERMANENT MUCOSAL FOLDS : >> plica circularis (vater of Kerkin of Small Intestine; Crescentric Mucosal folds of cystic duct (spiral valued Heister) Transverse (Horizontal) Rectal folds (Howton's value orplica trans-Permanent Longitudinal Rectal columns or folds (Found in Lower Rectum. PETIT TRIANGILE (19n/enfor Lymbal triangle) Boundaries :=> Base > 9/1ac crest Anterior Boundary Abdominal Boundary) => Posterior border c

External oblique Mu Posterior Boundary (Lumbal Boundary) > Anterior border of Internal oblique mude Floor and programming the control of the c MARKET THE PROPERTY OF THE PARTY OF THE PART

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DELVIS

* Structures winding Around 98chlal 8pine -> Pudendal Nerve

Internal Pudendal vessels

No fo Obtinator interney

they leave the helvis through greater schafe loramen and Enters the perimen through Lesses schanic longmen

tendon of obtinator internily emerger out through lesser scientic orginen.

Blood supply of Pelvis '=>

Internal illac Artery - Small terminal branch of common illac A.

Anterior division

Posterior divising

Superior Vesical Arteny

Inleier vertical Artery

(Supplies, the prostate) Middle Rectal Arren

Uterinal & Vaginal Araem

Interior glued Arren

Internal Pudendal Argen

Superior Gluteal Artery

- Lateral Sacral Many

9110-Lymbal Artery

It sufflies by vertebral

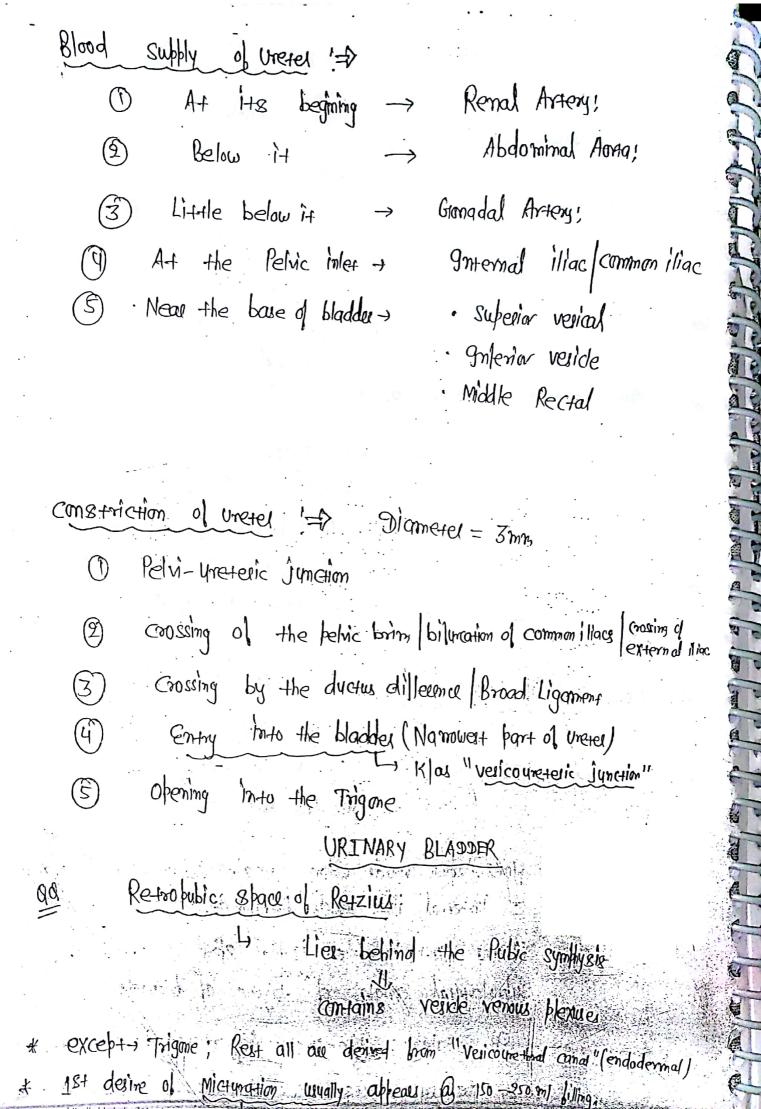
Obturator Artery; While Accessory (Aberrant) Obturator Artery 18 the branch of Inferior epigathic Artery

1+ 18 the branch of external iliac Artery

9mletor efiguific A Fernal A

In lemale it is Replaced by Uteline & Vaginal Anteny

URETTER Length > 25cm (10 inches) completly Retroperitoneal organ. Abdominal Part Post. Relation - Transverse process of Lymbas process; Psoar Majori Genito- Jemoral Nerve Ant. Rélation of Right Uneter > 3rd Part of duodenum 1 - Rt. colic vessels ilio-colic vessels - Root of Mesentry 4 - Gionadal vesels - Terminal part of ileum Ant. Relation of left wered - Left colic vessels 1 Sigmoid vessels Sigmoid Mesocolon Glonadal veiels Pelvic part - goes backwards along greater Sciatic Notch als Internal iliac vessels behind it. turns anteriorly at ischial spine & enter the 3 Sumolateral angle of lingone of bladder In Maley ; the circle is crossed by vaidelen In Femaly, the uneter is crossed by thering a



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base of the bladder !=> In Males > Separated from the Rectum in the upper part is by Recto **(2)** veside bouch Related to vas deference, Ampulla of vas, seminal vericles ejaculatory duct. In Fernaly -Related to Sura-vaginal part of the cervix & vag. Fascia of Dennon villieus => extends from Recto veride pouch to the Perineal body Separates the Rectum from Seminal vesicle & prostate in Males. M. Supply ! Sympathetic > T10-L2 Li Contracts the Sphinciel & Relaxes the Mus Palasympathetic >> S2,3,4 Contracts the Mucles & Relaxes the st epithellum of Bladder Mucosa !-> Transitional URETHRA Male unethra on Section - A+ bulb - inapezium In the Penis -> Horizontal slit At base of glan > Goverted "T' shape At external unethral mile -> vertical silt _ Epithelia Ching Above the opening of chadlenny duct of gland Middle -1 Colymnay

OVARY

- Suspended brom posterior leafler of broad Ligament by
- Attached to Cornu of the Uterw. by Ligament of Ovary and Lateral Pelvic Walls by Suspensory Ligament of overy Infundibule-Pelvic Ligament,

drains into the para-gorotic Lymph Nodes.

OVARIAN FOSSA

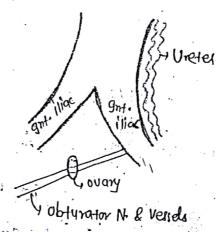
Boundaries -

Suberiorly -> external iliac veudu

Posteriorly -> Ureter & Internal illac -veuelu

Laterally & the -> Obturator Nerve & veuely

Lloor



Round Ligament of Haw is attached to > i> cornularly li> Labiq Malacy

Numbership of Maintaining ballowing bartained WhatsApp: +

* Roof of Posterior triangle Investing Layer of Deep cervical large encloses = 2. 94 Stemo - deido - Martoid 9 2 Mucles > Trapeziu. b> spaces = Subra clavicular a> supra - sternal Sub-Mandibular 2 Glands > **a**> Palotid b> Posterior. Form Rool for 2 triangles Anterior Inlangle Musculae ∆ !⇒ * Stermohyold mucle a> sterno thyroid mucle / -> Inloghyoid Ribbon Mucle 6> Thyrohyoid mucle dy mucle Omohyoid ANSA CERVICALIS

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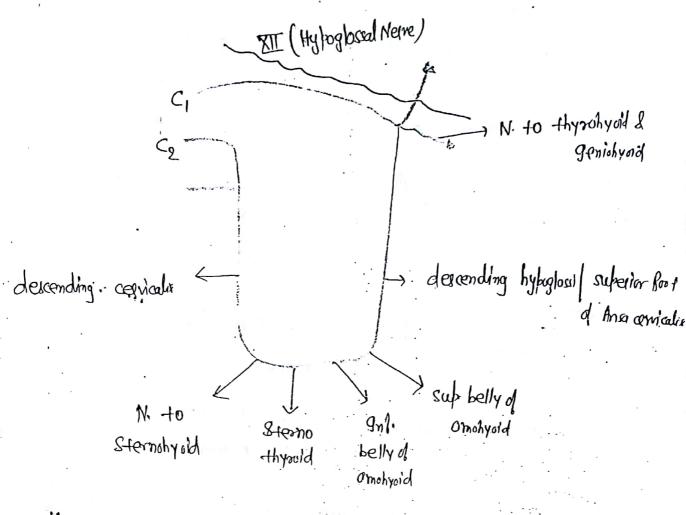
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さつうう

91 lies on Anterior wall of anotid sheath.



Thyrophyoid & Gremishyoid" are Supplied by separate branch of C. Nerve through hypoglossal Nerve

THE COMMON CAROTED ARTERY

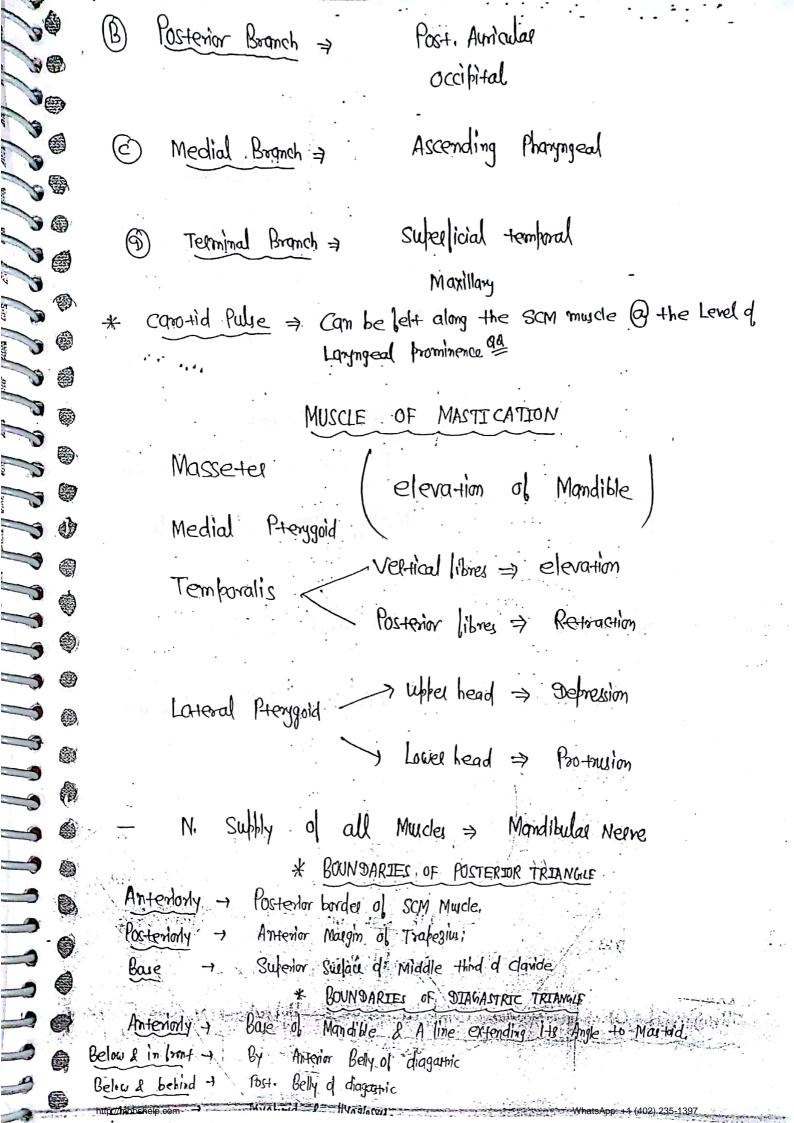
- divides at the superior border of lamina of the thyroid caltiloge.

Mucle blu the 2 canotide > Styloglossu & stylophanngen

- Branches of External calotid Artery 1-

Anterior Branches > Superior thyroid

Lingual
Facial



INTERIOR	0F	SKULL
ري المناجدا والماسي	· ــــــــــــــــــــــــــــــــــــ	_

- D Foramen Rotundum > Maxillary Newe;
- (3) Foramen ovale ⇒ M → Mandibular Nerve;

 A → Accessory Meningeal A.

 L → Lesser Petrosal Nerve

 E → Emissary vein
- (3) Foramen & pinosum > New vus & pinosus Meningeal branch |

 Recurrent branch of Mandibular Nene ,

 Middle meningeal versels;
- (4) Foramen Lacerum > Internal audid A
- 3) Gotternal Acoustic Measures 7th; 8th & Laborgrathloome negleti
- (6) Jugular foramen !-

Anterior Compatament

Snjerior Petrosal Sinus

Middle compartment

Postellar ampathorna

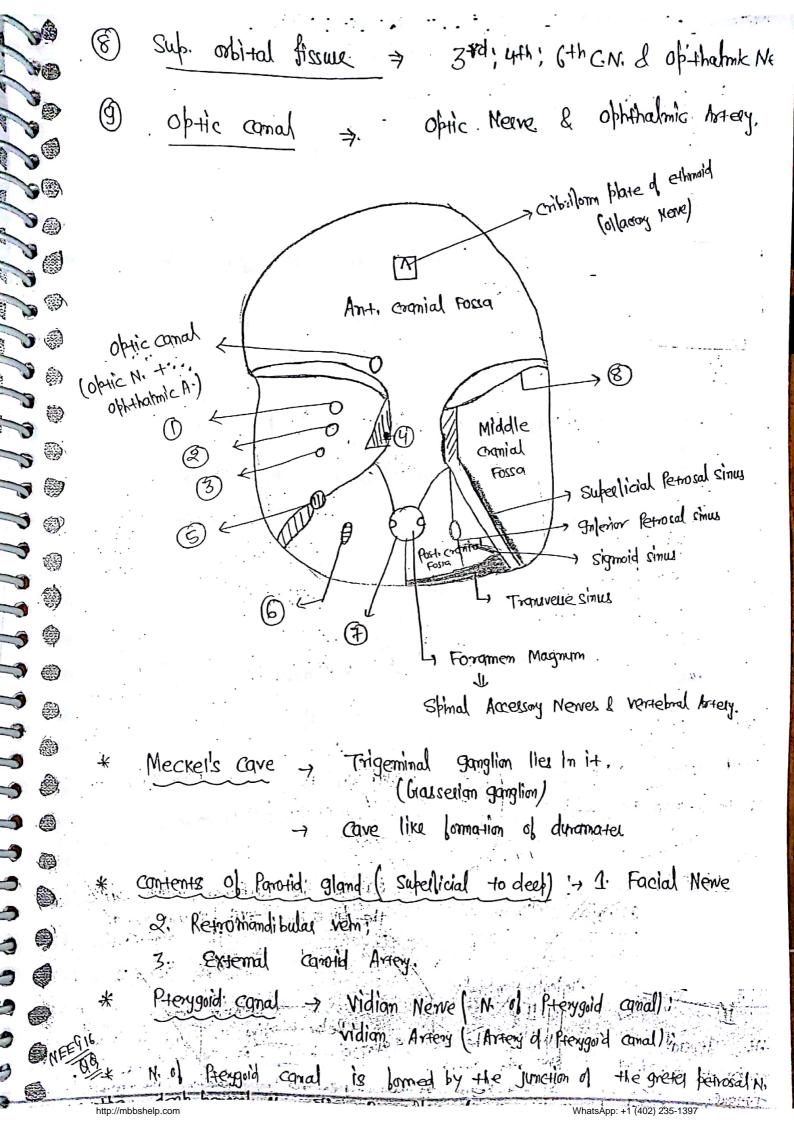
- 9th, 10th, 11th

- Signaid Sinus

Cramial Neme

(7) Hypoglossal amal Anterior Condyla anal > Hypoglossal N.

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MANDIBULAR NERVE
-1> Branches from the trynk;
Ly (1) N. Spinosus
4
enters the Skull through foramen spinos
& Supplies the Meninger of Middle crans
lossa.
f.072d'
M. to Medial Ptergoid
4
Supplies the Medial Prezygoid
Lako sublier Tensor Palati;
Tenar tympani
-ii) Anterior division
3 Muscular 1 Sensory Cutaneous
Masseric New - Burcal-Nerve
Deal simple of the
supplies the Skin & Micou Membare
over the buchman
ilis Posterior division

Lingual N. Auxiculo-tembool.

Auxiculo-tembool.

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Lingual Nerve > Supplies General Sensation to Ant. 2/3rd of tongue - 91 18 Joined by chordar tympani; which supplies special sensation A B to Anterior 2/3rd of tongue. Auriculo - temporal Nerve > Supplies the &kin over the Auricle & temporal Region 94 also carries the bost-ganglionic lapasymbathetic libres from Otic ganglia to Parotid gland. Interior - Alveolal Nerve > Dentist Nerve - enters the Mandibular Foremen; supplies the Lower jaw & teeth & emi Mental Nerve. - Before entering the Mandibular foramen; it gives a branch - N. to Mylohyoic which supplies Mylohyoid & Am belly of digastric mucle <u>ۇ</u>). **79**) MAXILLARY ARTERY Branch of external carotid; given in Palotid gland divided into 3 batts by lateral Pterygoid Murder (3) -) extends who lower border of Lateral berygold Murder, 0 184 part => Deep Aumaulas A Anterior tympomic A (Mandibulae part) Middle Meningeal A. Accessory Meninger A. 69 Interior alveolar, A 3 -5 my Lies In Intra-temporal bossa and balt Masseteric A Deep temporal A (Pterygold part) Artely to the Pterygoid Burial Array

(Ptenygo halatine haut)

Lies In Frenygo-balatine bossa.

Post, superior alveolar A.

Gineater balatine A.

Phanyngeal A.

Artery of Pterygoid canal A.

Sthenopalantine A. (Artery of epistaxis)

AUTONOMIC NERVOUS SYSTEM

Symphathetic Nervous system 1=>

The pregarglionic libres arises from Lateral horn cells of Ti to L2 segments of the spinal cord,

- They Pass through ventral root; Spinal Nerve & enter the Symb. ganglion through white Ramus communicans
- Thus white Ramus communicans are prf. in 7,-12 spind Neares
- The librer goes to higher I lower gonglion.
- The Post-ganglionic libres enter the 8 final News through Grey Rami communicans
- Thus Grey Rami communicans Is given to all the spind Have

Parasymphathetic Nervow System e T ATIME NOVI 16 S2,3,4 Newi eregenie Pelvic 2 Aplanchnic. Cranial outlow Sacral outllow Arises in the Lateral horn cells of Arises in the brain stem S2,3,4 segments of the spinal Callied by 3rd; 17th, 9th cord (Pre-ganglionic librer) & 10th They supplies the glands the glands in the head & Neck are supplied by facil Nerve except -Parotial gland Sublied by glossophanniged Name Supplies the gland of GIT vagus 3rd CN. Sufflies -> Sphincter pubillae & ciliaris Murcle. * -> No gland supply. GANGLION 4 collection of Neuronal cells body outside th CNs. Stryctural Relation) Pre-gonglionic Past-ganglionic (Glands Functional Relation

Pterygopalatine Sub Mandibula OHIC Cillary . Granglian Sphenoganglion ganglion ganglion Palatine ganglion (Largert P.S. Ganglion) Strycyral Mandibular N. Lingual N. Maxillary N. Nasociliany N. Functional AII 11 VII Kelatim > Superiorly: Foramen Ovale; OTIC GANGLION !=> Laterally! Wualty: Symounds Mandibula Necre ganglion "tensor vali Palatini Medially ! the Origin of the No to Medial Prengeria Middle Meningeal A. Posterionly! PAROTID GLAND NERVE SUPPLY OF > Interior Salivatory Nucleus (Nucleus of Gilossopharmed No. Preganalimic Tympanic br. of 9th C.N. (Jacobson's New + Symphathetic plexus Supplies the Middle ear cavity! Tympanic blexus (Lies on the promontary of middle) Eutachian tube! Mastoid Antrum Lessel Petrasal Nerve Otic ganglian Auriculo 1em paral No (It causes the post ganglionic libres Past-ganglimic brom otic ganglian to Parotid) Parotid gland

FACTAL NERVE

Superior Salivatory Nucleus (Nucleus of Facial M) Sensory br- of Facial Nerve (Neeve Intermedial N. of with g) < Join & Motor branch Trunk of Facial N. (In the Internal ear) Geniculate ganglion | Bend Genu of Facial Neuve) Stylomasinid Uneated Petrosal N. +0 Stapeding Chorda tympan Charda tympani emerges out through Petro-tympanic fissuu John E Lingual Sub Mandibular garaglion & sufflies Sub Mandikular gland Lingual gland take fibres from ant elsor of tongue (except) Chramvalla

btp://mbbshelp.com

3 @

& Greater Petrosal Nerve Joins & deep betrasal. N.

Forms

Vidian Newe | Nr to Freygoid canal NEE916

Pterygopalatine ganglion

Subfles

... Lacrimal; Nasal; Palatine & Phonyngeal gland

* crocodile reas involves subnandibular & Lacrimal gland.

* Vidians Nerve initation => Symptom of Allegic Rhinitis

FUNCTIONAL COMPONENT OF NUCLEUS

SPECIAL VISCERAL EFFERENT BRANCHIO- MOTOR COMPONENT !

Sublies the Mucle derived from the lohanynged arches.

@ m 5, 7, 9, 10 th CM

Common Nucleus for 9th ; 10th & cranial accessory (11th CN)
is Nucleus Ambiguous

(2) General Visceral elleunt Secreto-Motor COMPONENT 5

Supplies the gland

It represents the coamial outlier of the balarymphase Names

(1)mf in 37,9,10th CAL

3 General Somatic ellerent =) Supplies the Muscle derived from Occipital Somites Myutome (EX-1801-ocular & tongue Muscle) in 3 rd; 4th; 6th; 12th C.N. Blood Supply OF Facial News • In Facial canal -> (9) Superficial Pernosal branch of Middle ******* Meningeal Artery; Stylomastoid branch of Posterior Auricular or occipital America, (9) Stylomagical branch of Posterior Auriculae or (2)EX+racramlaly -occipital arrevies Tympanic branch of Ascending phayinged Artery. (P) **(4)** SINGES DURAL VENOUS SINUS => 9+ 18 Older to Meningeal Layer mnee to endosted Layer, The dynamates divides into an endosted and Meninger layeus encloses the dural venous sinu. -t0 Superior Sagmal Sinuy * Rt. transveye R+ Sigmoid R-6 Internal jugular vely.

Interior Sagl-Had Simus

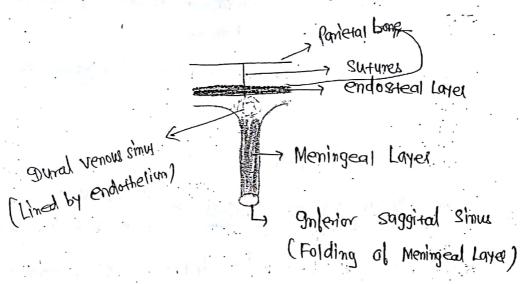
Straight Simus

Lt. Fransveux

Lt. Sigmoid

L

Lt. Internal jugular volm

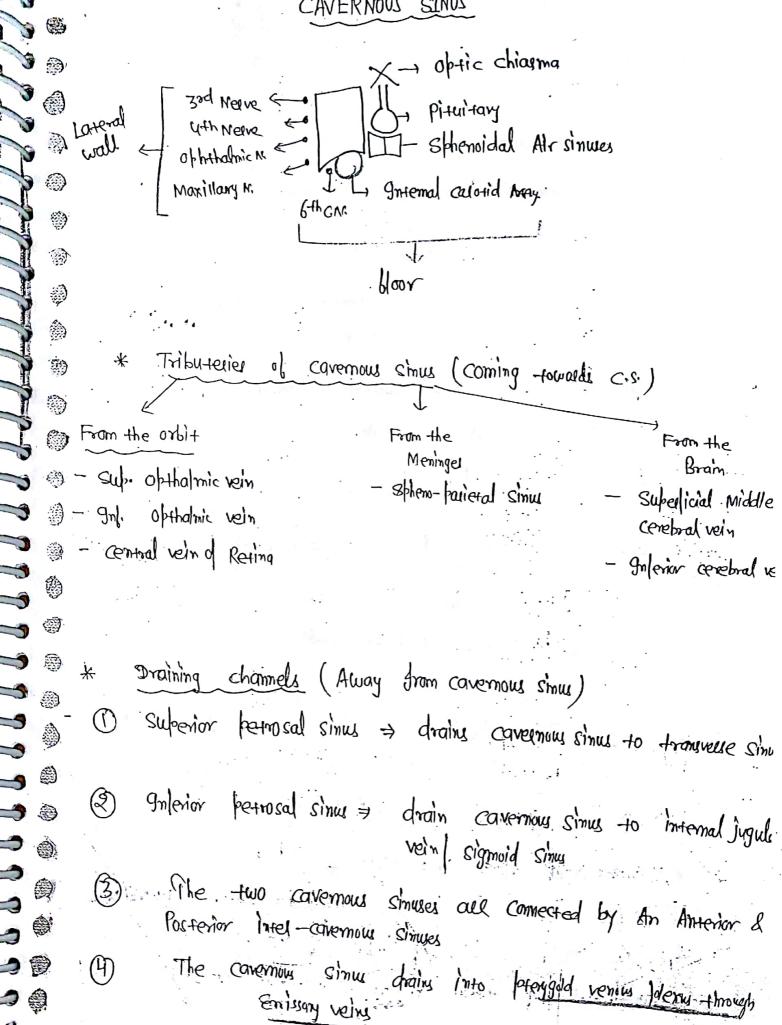


- * Falx cerebri !=> 14 contains Superior Saggital sinus & Straight sinus.
- * Falx cerebelli '=> Encloses occipital Sinus
- * Great cerebral velos braken => 9t is formed by the Union of two internal cerebral velos; is 2 cm long &" draine Into the straight Sinu.

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CAVERNOUS SINUS



9

THE PHARYNX > extends from base of skull to the level of 6th coevical restebage. \rangle Structure bassing blu the Superior constrictor & Rose of Skull Simus of Morgagni !=> Momenta & PALE 9> Eutachian tube. Levator palati Mude NEEPIBC> - Ascending Palatine A Pala-time branches of ascending phayinged s 8 toucture passing blu superior à Middle constrictors (ii Stylophanngen Mucle! a> Ь> Glossophannged News; blu the Middle & injerior constrictor => (ii) Internal Languaged Neive $a\rangle$ Superior Languaged vessels Below the gnlenor comutactor = is Recurrent Layinged N 97 67 galprior Languageal vessely of vocal cords => crico+hymid Tensors Suffied by External Laryngeal Nerve Paralysis Results in "Loss of Timber of the voice". Abductor of vocal cord => Post. Crice - anyteroid Greninglose Salety Muxle of tongue =

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* lesions of hypoglosial N. the tongue is front deviated to same side of Lexim. Intolosic Muscle of Phanynx >> Stylophanyngeow; Salpingophanyngeow; Palato-*phanyngeous. * Extrinsic Mude of Phannx > Superior Conutrictor; Middle Conutrictor; Inferior constrictor. Foramen of Morgagni >> Located In Thoracic Diaphragm; from whice 39 Superior epigastric A. C vem & Lymphatics basses. 3 - St. 18 also Klay "Sternocostal Hiatus or Lamey's " Retrophaynged space 17 Potential space of the head & Neck; bayno by the buccopharyngeal lauda Anteriolly & the Alal lauda Posteriolly, **3** >> Nasophaynx -> Lined by ciliated columnal **3** Phanynx is Subdivided Into ____ onophanynx epithdium 99 Lies above the solt palate > Hypophanyna 2 * Phonyngeal opening of Eustachian tube is situated 1.25 cm behind the **3** posterior end of Interior Hubinate and 70 -5 Key Muscle of the oral Region => Hvoglossus * **3** 3 Structure Superlicial to Hyoglossus News !=> * - Lingual Nerve Submandibular ganglion deep part of Submandibular gland Submandibular duces Hypoglossal Nave Colosspharingeal Nerve deep to Hyoglosous Mude 4 * Strycture Lth gual Amony. の X lot around sub-Mandibular duce Stry Ctul 少量 WhatsApp: +1 (402) 235-139

PHARYNGEAL ARCHES

ECTODERMAL	CLEFTS	=
1 -	77	

184 E.C. > Forms the external Acoustic Meatur & Pinna

and Ec = grows down & lives = the last

The Neck thus become smooth;

il it doesn't lue -> Branchial Sinus Fistula

ENDODERMAL POUCHES >

First Endodermal Pouch

Dorsal

- Forms the tubotympanic Recess; Which forms Middle ear cavity of eustachian tube. Ventral

- Joins of the 2nd & forms the palatine tonsil.

Second Endodermal Pouch

- Joins & ventual part of 184 E.P. & John the palatine touil.

Third Endodermal Pouch

Dorsal

Inlesion Parathyroid

Formy the thymu

Dorral

Superior Parathymid

Ventral

Ul-timo-branchial bodies; which borns Pala-follicular "c" cells of throid.

Recently discovered from Neural crest cells" (=)

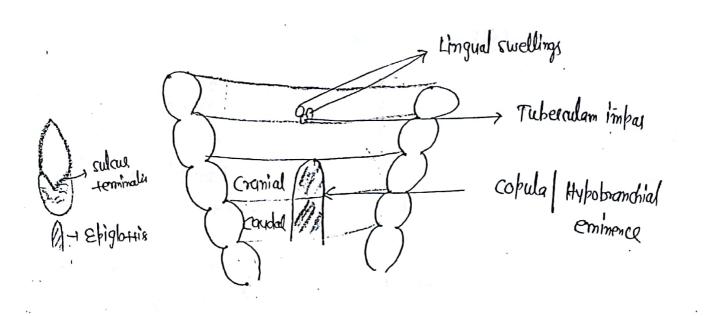
Ultimo - branchial bodies => 4th Endodernal

DEVELOPMENT OF TONGUE

- Ant. 2/3rd of the tongue is derived from > 2 Lingual Swellings & Tuberulum Impas.
- Post. 1/3rd of the tongue is derived from > Cranial fact of hypo-branchial eminence/copula
- Post. Most. Past of the tongue & epiglottis is defined from cauda past of hypo-branchial emimence.
 - Muscles of the tongue are derived from > Occipital Myotomes.

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* NERVE SUPPLY OF TONGUE ! ->

	•	· ·
PART	Π'AS TE	GENERAL (TOUCH & TEM
Anterior 2/3rd (mal part except -> Circumvallate Papillae)	chorda tympami (Facial Newe)	Lingual branch of Mandibular division of Trigeminal Nerve
, Postesion 1/3rd Includ circumvallate papillae	ding Glossophanyngeal	Gilossophanyngeal
> Posterior Most part	Internal Languagean branch of vague	

* Delphian Nodes > Klas " Pre-Laryngeal Nodes".

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DEVELOPMENT OF FACE

- -> 5 Processes; which takes but in lormation of Face 7.
 - 1 Fronto naval process
 - 2 Maxillary braces
 - 2 Mandibulal brocess
- * Midline Upper lip cleft => d/+ Non-luion of & Medial Noval process
- * Hare lib cleft lib = dl+ Non-luim of Maxillary brocess & media
 Noval process
- * oblique facial clel+ > Non luion of Manilory brocess & Lateral Naval
- * Midline lower lip cleft > Non-lusion of 2 Mandlbular process

DEVELOPMENT OF HARD PALATE

Primary | primitive balate | pre-Maxilla

Fusion of two Medial Nasal process

Secondary

 \mathcal{U}

Flusion of two palatine process of Maxilla

The Incisive forament differentiates blu Bolomany & secondary palate

PHARYNGEAL PLEXUSES

- Formed by + a> phanyageal branch of glossophanyageal Nerve,
 - b) Phanyngeal branch of vague & cranial acceptany
 - C> A branch from Superior coercial ganglion
- The Phanyngeal plexuses lies on Middle anothrictor Mude. of the phanynx.
 - 9+ 'Supplies -> O All the Muscles of Solt balate example tensor balati

Supplied by Mondibular N. through the Nerve to Medial Pterygoid

3) All Longitudinal Muscle of phaying.

Stylopharyngew Salpingopharyngerus

Palatophalgman

Supplied by Glossophannged None

3) All the circular Muscle of Pharymon employer cricopharyngew part of Inf-constrictor

external Returnent Laryngeal N.

Superior Languageal (4th Phanyageal And)

Gn-emal Langual

External Largraped

Supplies the Cricothymid.

plerces the thynologoid

Membrane; passes blu

Middle & Imperior

Constructor; to Subty

the Mucous membrane of

the layon above vocalloids.

- also Subpies Posterior Most bart of Pangue & Ebiglottis

Recymen + Languaged (6th phamynged Arch

- Lies in the trackeresophageal growe.
- paves below inferior all constructor to supply v Moude of Language excepts orthogrand
- Sensory supply below the vocal
 Folds.

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BRAIN

Central Sulcus 18 Klas → Sulcus of Rolando. Lateral Sulcus 18 Klas → Sylvian fissuus.

* Functional Areas !=>

Pormay Area

- Perception of

.Sensation

Association Area

- Interpretation of sensation

Pre-central 94mls

Central sulcus

Poet cominal sulcus

Lateral sulcus

19
18
17
Calcarei sulcus

Area 3,1,2 => 10 sensory Area

Crude sensation =>

Touch; Palm; temperature

Fine sensation =>

Tactile localizations

Tactile discrimination;

stereognocic;

Vibration!

Bohiocet alon

154 ORDER NEURON

Crude sensation Dorsal Root

ganglion

2nd order Newon

· Dorsal horn cells
of spinal cond
(Substantia gelatinosa)

3rdordei Neyron

Thalamus (Ventro-hosterio-Lateral Nucleu)

Nucleus Gracilis & . Thalamus
Nucleus Cymeatus (Ventro-festerioLateral Nucleus)

Fine censation: Dorsal Root

ganglion

Area 5,7 =>

Sensory Association Area

Area 17 >

Primary visual Area

Visual Pathway >

Retina

Optic. New

Obtic Chiasma

Optic tract

Lateral geniculate body

Optic Radiate (Retro lentilon part of Internal Capaile)

Area 17

visual Association Areas Arrea 18,19 => Damage to Area 18,19 leads to -> Visual Agnosia word blinds Primary Auditory Area Area 41,42 => organ of Corti Auditory leathway Donsal & ventral cocheal Nucleus (I) in Medulla obla Superior alivary Nucleus Trake gold body Lateral Leminiscus Interior colliculus Medial geniculare body (Subtentition part of gritemal Auditory Radiation Area No. 41, 42 (CORTEX)

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8

Area No. 22 => Sensory speech Area Welnicke's Area Damage to 22 leads to > Auditory agnosia word deal men Area 41,42 damage => Area No. 44,45 => Broica's Area / Mostor speach Area Arrayate basciculous Uncinate basciculous > Connects the wemicres & broca's Area. (Connect Frontal to temporal Labe) Area No.4 > 10 Motor Area June" > gni-tiation of Movements Large Pyramidal cells is klas > 11 Be+3 cells" Descending libres Cortico-Nycleau Cortico spinal Area No. 4 Area No.4 Internal cabrille Internal capsule (Genu) (Posterior limb) Brain Stem (Nuclei of the cramial News) Mid brain (Orus cerebri) Pons (Basilas þatt) Medula (Pyramids) Spinal Cord Anterior hom cells)

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Area No. 6,8 Are-Motor Area execution of Movements Pre-frontal Area Avea No. 9,10,11,12 -> Ly bynetion > Intelligence; Memory; ego & sell-Respect (Personality | Social behaviou): -> 91 is the Region; where the Frontal; Pailetal P-terion temporal & sphenoid Joined together. Klas the " weakest part of the skull". The Anterior division of Middle Meninger Artery Runs undured the pterion. FRONTAL LOBE => 9+ has following functional Area !=> *→ Broad mam's Area 4; 10 Motor Cortex Premotor correx => Areas 6,8 Subplementary Motor Area > Area No. 6,8 ⇒ Area No. 6, 8, 9 Frontal eye field 147 Is located in Posterior part of Middle bu gynu V7 Broca's Motor Speech Area > Area No. 49, 45) Located in Posterior part of Interior brontal gyny. vi) Prefrontal Area = Area No. 1 (9), (10) (10), (10)

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*

會

* PARIETAL LOBE => 1> Primary Somato sensory cortex

Area No. 3, 0, 0

li> Somato Sensory: Association · Areas !->

97 Superior Parieral Lobule -> Area Nov 3, 3

by Supra Marginal gynu -> Area_No. (46)

C) Angular gynus -> Area Nor (39)

* TEMPORAL LOBE => 1> Primary Auditory Area

Area No. (4), (42)

11> Auditory association cortex (Secondry Auditory Area)

Area No. (22)

- it Includes wernick's speech Area & is located in Posterior part of Superior temporal gynu,

* OCCIPITAL LOBE => i> Primary visual cortex

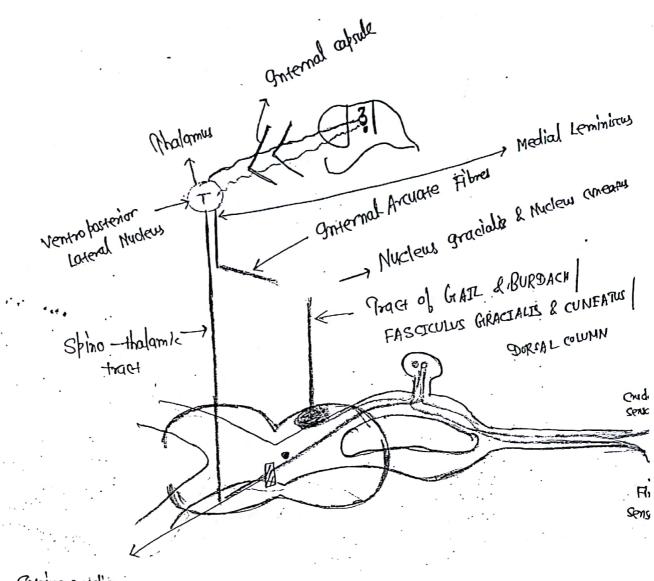
Strike Arrea; Area No(F)

11> Visual Association Areas

Secondary visual Area: Area No. 10,00

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Symngomyelia

4 Fine sensations all intact.

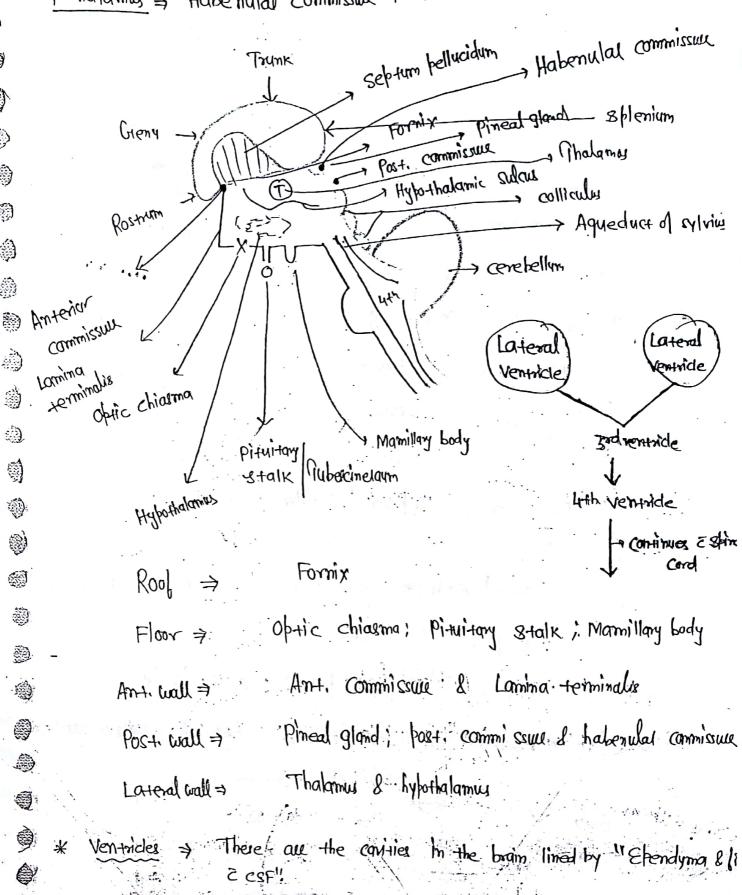
- All crude sensation are lost.



IIIrd ventride

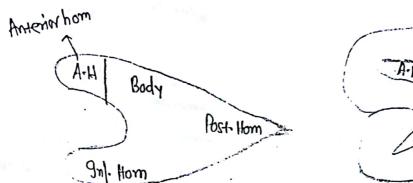
S.

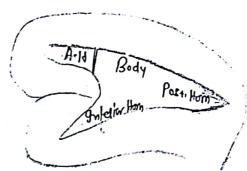
epithalamy => Habenular Commissur + Pineal gland + Post, commissur

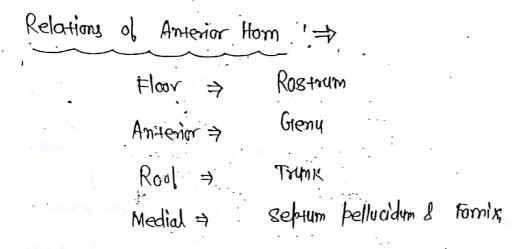


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Palts :





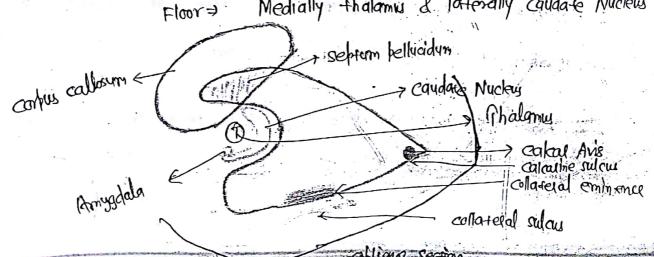




Trynk Rool >

Medial > Septum bellucidum & the lornix

Floor > Medially thalamu & laterally audate Nucleus



- * Posterior Horn & Amt Horn = -Both has No charlodal Mexu
- * Body & Int. form => have charoidal plane.
- * Interventional Foramina or Foramina of Monno '=> Connects 3rd ventricle to

COMPLETE SULCUS

is the one which torms an elevation in the floor of the lateral ventricle

eg=" calconine Sulcus => Forms an elevation in the floor of Posterior Horn

Calcal Avis

Collateral Sulcus > Forms an elevation in the floor of galation hom

Collateral eminence.

* if both are in option => collateral 7 calcaline

* BLOOD SUPPLY OF BRAIN

- (A) Vertebral Artery 13 Enters into the foramen transversion of G vertebral
 - Croses the Arch of Atlas & Criter the Skull through longmen Magnum

Two vertebral Joins to long Basild Arrey

Branches => Anterior Spinal Arrey
Posterior Spinal Arrey

3

8

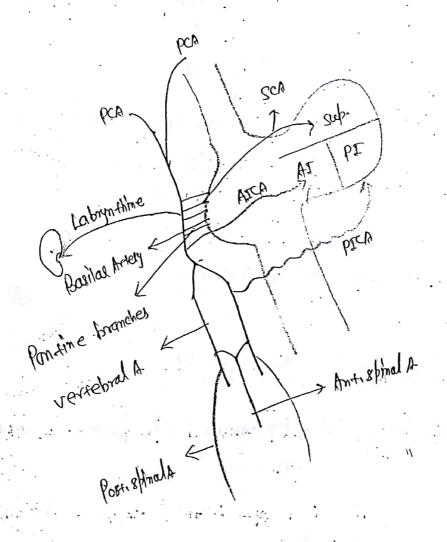
(B) Basilae Artery > Lies In Pons

branches > Pantine branchies Palamediam branches

supplies base of Pons > damage caux of L

Henibleda

- · Labrynthine arrivy
- · Ant. Inlerior cerebellal array
- · Superior cerebellal grapy
 - · Post, cerebral arrely



Internal carotid Artery Skull through Foramen Lacerym enter the branches => Cavernous brancher Hypophyseal branches (to bituitary gland) Obthalmic Artery (bass through obtic canal & obtic Nerve) Ant. Choroidal Arrey Post. Communicating Arrey -> Anti-cenebral A. 2 terminal branches < Middle Cerebral A L) Continuation of Governal consid Circle of willis Anterior communicating - ACA (Amerior cerebral A MCA (9CA (Internal constid. Middle cerebral A → Post, communicating does Ht basticitate in circle of willie Passesion cerebral Anery

3

0

9

Circle of willis

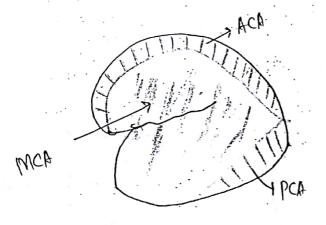
Cortical branches

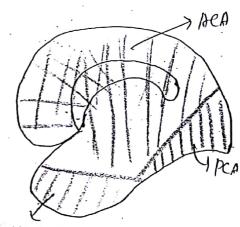
— enter the sulcito supply surfaces of the brain

Central branches

- enter the Substance of the brain to supply to deep Nuclei.

Arrien Ant in Lateral Sulaus > MCA (Middle Cerebral A)
Arrien Ant in Callosal Sulaus > ACA (Arrieniar carebral A)





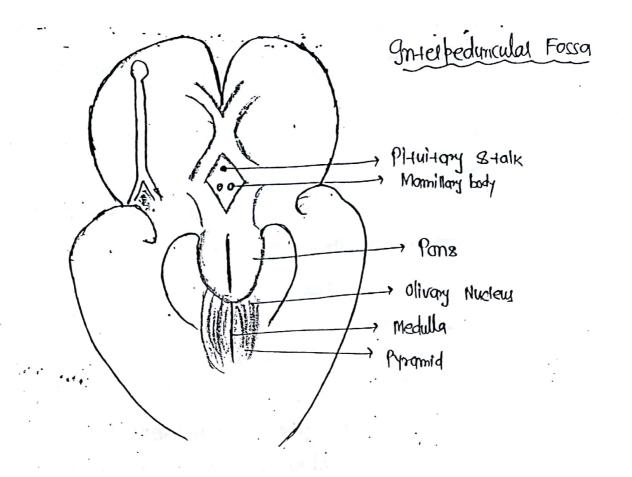
MCA.

Blood supply of Motor sensory Area

MCA + ACA both

Middle cerebral A

Anterior cerebrel A



Boundaries => Amterolateral => Optic tract

Posterolateral => Crus cerebri

Floor => Pituitary Stalk; Mamillary body

& Posterior Perforated substance

Complement > 3rd Neave & circle of willis

VENOUS DRAÍNAGE OF BRAIN

1. Superficial veln => Superior cerebral veln

drains lateral Surface of the brain of they opens into the Suberior saggital Sinus.

Inlerior cerebral vein

drainy the inferior surface of the brain of
they opens into the Cavernous show & sigmoid
sinus.

Anterior cerebral velm

Lies In the Callosal Sulcus along & Anterior cerebral Artery

Middle cerebral velo

Superlicial Middle cerebral

Commynicates Medially T Cavernous Sinus & Laterally

C Superior Saggisal & transveux Sinus Deep Middle celebral

- . Lies diech in the lateral sulau along & MCA
- Anterior cerebral; the deep Middle cerebral & stright veing Johns to lorn Baral vein

draine into Great cerebral vein of galen

Internal cerebral velo Deep vein 1 (a) of

Inter ventricular foremen by Joining Thalamostriated vein Choroidal vein septal vein

Internal cerebral veins Joints to born great cerebral vehi of Gralen Ly drains into striager sinus

The Basal velo drains into Great cerebral vein,

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THE BRAIN IV th Ventricle

Roof > Formed by cerebellum

審

1

7777711

Floor > Lower half of the pons of upper half of the Medulla

Facial colliculus => Formed by libres of Facial Neare at they wind

Anound the Abducent. Neare Nucleur

Hypoglossal A > Formed by hypoglossal Name Nucleus

Vagal A > Formed by doxal Nucleu of vagus

BRAIN STEM

- Only Cramial Neure; which emerges from dorsal as beat of brain stem

Trocheal Thinnest cranic

The Nerve Which undergo complete decussation before emerging

Trochled Neme

Pregnant Nerve > Nerve having distay within 4.

Li eg > Obtic Nerve > contains central A d Reting
Sciatic Nerve > branch of Important glutters.

Medial MOB+ No attached to Ponto-medullary Minorian ->

* Lateral Most

Nerve attach @ the Junction of Pony & Middle cerebral Reduncte

Trigeminal Nerve.

FUNCTIONAL COMPONENTS OF NUCLEUS

1) Special visceral effects :

Nerves.		Nyclew	
5		Nucleus of	Trigeminal New
7	> 1M0+0V	Nucleus of	Facial Nerve
9	7		
10	Nuclew	Ambigous	
No.	, i statuti		

(3) General visceral elleunt &

Neves		•	ivucieug
3			igel. Westphal Nucley
7	<i>→</i>	Sup.	sallvatory & Landmatory
9	7		salivatory
lo	→ →	Dorsal	Nuclear of vages

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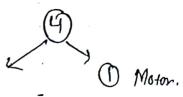
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Greneral Somatic ellernt :=> 3 Nudew Neive Occulomotor N. Nucley 3 Prochled N. Nucley 3 4 Abduant N Nucley 6 Hypoglossal N. Nucleus 2 Special visceral Allecent !=> 1 in 7, 9 & 10th Cramial New Nucley of tractu solitaring 9 5 General Visceral Alleunt !-> 粤 (5) 9 10th Nerve (Vague); Special Somatic Allernt !=> present in 6 C-N 184 2714 C-N carried by Ingeninal Neve; General Somatic alleunt !=> \oplus three Nuclei -> 97 Mesencephalic Nucley prts in Mid brain

Chiel Sensony Nucleus -> prt. In Pony prt. in Medulla Spinal Nucleus ->

No. of Nucleus of Prigeminal Merre >

3) Censory



THE BRAIN OF WHITE MATTER

Commisual fibres

Connects similar

areas in the opposite

hemisphere

eg > Confus callosum

Ant. Commissue

Post, commisure

Hebenulal commissue

Projection fibres

- they projects Outside the brain

eg > Internal capsule

Association libral

- connecte dillerent

grea in Some heniether

eg = Uncinate laicialus

INTERNAL CAPSULE

Palts :

Anterior Limb (Lies blu caudate Nucleus & Lentilorm Nudew)

- Greny
- Posterior Limb (Lies blu the thalamy & Lentilorn Nucleus).
- Remolentilon part; lies behind Lentilon Nucky
- Sublemii om part; lies below Lemilom Mudeus

· . AL Ascending > Thalamobibres brontal

Thalamo -Parieral

RLP Thalamo .-Occipital

· Thalamo temporal (Optic Radiation) (Auditory Radia

SLP

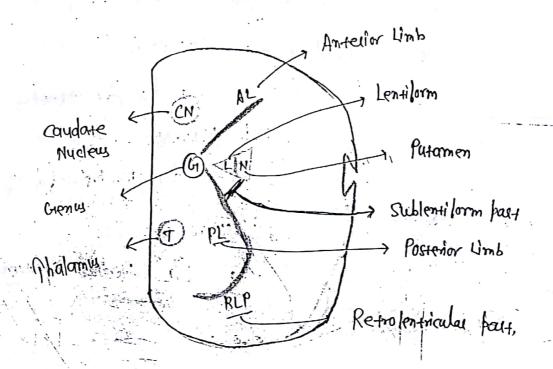
@ Descending Fronto- Corticopartine. bibres Nucleas ()

Cortico-Spinal

Occipito _ portine

Temporo Pontine

Main A. Supplying the Internal capsule > Middle cerebral *



* Medial Medullary Syndrome Alternating Hypoglassal Remiptegia

- Thrombosis of vertebral Artely;
- Structures Involved -> Hypoglossad Nucleus
 L. III Paralysis of G

4 IIL Paralysis of Pongue

Corticospinal tract

L, cll hemiblegia

Medial Leminiscus

L) C/L Loss of Fine semeation,

* Milard-Grubler Syndrome

- Thrombosis of Palamedian branches of basilar arrevies;

Structures Involved -> Corticospinal tract

L, c/c hemiplegia

7th None

L) I/L Paralysis of Face

6th Neare

L) I/L Medial squint.

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WEBER'S SYNDROME Thrombosis of Post. cerebral Aracy. 1 Cartico-Stinal trace Structures Involved > CL Hemiplegia 3rd New Ly I/L Lateral Squint & Diblobia; P-10512; Pupils are dilated & fixed CERE BELLUM Fibres Coming to the cerebellum Mossey's Libre Climbing fibres arises from splinal and; andses from the Interior provilo Nudeus vestibular Apparatus & corre Stimulates Purkinje cells Stimulates granule cells Stimulates Purish cells

*

8

imhibits the deep cerebellal Nudau & Lateral vestibul

Nyclew.

INFERIOR CEREBELLAR PEDUNCLE

Allecent fibres -> Posterior spino cerebellar;

Olivo - cerebellar;

vestibulo - cerebellas:

Residus - corebellas;

Cyneo- cerebellar (carrier Unamecion propriocipion l'rom uffer l'inb)

Ellern+ fibres ->

Cerebello - Vestibulas

cerebello - Reticular

Cerebello - Olivany

MIDDLE CEREBELLAR PEDUNCLE

Affectant libres. -

Ponto-cerebellas

SUPERIOR CEREBELLAR PEDUNCLE

Allerent Libres -

Ant. 8/10- cerebella

tecto - cerebella

Hypo thalamo- cerebellas

ellerent fibres ->

Cerebello - Rubral

Dentato - Rubral & Dentato - Halamic

THALAMUS

Ventral group of Nucleus

Ventro-Anterior

S.

A

9

3

9

2

3

3

3

3 🕏

1

3

1

Receives input

brom Baral ganglia

1

Projects to Area

No. 628

Ventro-Lateral

Ventro-Posterior

1

Receives Impuf

brom. Cerebellum

1

Project to Area

No.(4)

Ventropostero Lateral

- Receives Medial

Leminiscus & Spinal

Leminiscus

.\

Projects to Area No.

3,0,2

Ventroposiero Medial

- Receives Trigeminal Leminiscus

& Solitaro - thalamic tract

(Nucleus of Tracius solitori

Projects Into 3,0, 2 Area

* SPINAL CORD

DORSAL HORN

Substantia Gelatimosa: 2nd order Neuron for crude sensation:

Nucleus Bobius: Receives conscious Proprioception:

Nucleus dorsalis | Clarke's column; Receives Un amscious probioception from trynk & Lower fimbs;

Visceral Allerents! Receives sensation from visceral organs.

VENTRAL HORN

Medial group: immervates the Muscle of the Neck & the trum

Lateral group: present in the cervical & Lumbosacral
enlargement of the spinal cord

Central group: a> Phrenic Nerve Mucleus = G-C5

b) Spinal Nucleus of Accessory News = C1-5

9 Lumbosacral Nycleu

LATERAL HORN

Intermedio Medial Nucleus (Sz, Sz, S4)

Gives origin to bre-ganglionic bibes of Parasympathetic Nisystem

Intermedio Lateral Nudew

of sympathetic Nisystem Ta to

3	DEVED LANGE
8	REXED LAMINA
5	- System of ten layers of grey Matter.
S.	1 -> Postero marginal Nucleus
7	2 -> Substantia Gelatinosa
	324 -7 Nycleus Proprius
19	Dans of docal column
30	526 - Baje of grown of Lateral hom 7 - Nyclew dorsalie; Nyclew of Lateral hom
10	T - 1/4 CIEM COLSONS, Colomn
	8 & 9 -> Nyclei of Antelior grey column
	10> Syrrounds the central canal.
3	and al America cerebral;
	* HEUBNER'S Artery 17 Recurrent branch of American cerebral:
	Striate branch of Middle Green
19	NEE 1/16 The cerebral cortex contains 5 types of Neurons >
	i> Pyrkinje cells
3	
3	li> Granule cells;
	in; Barket cell;
3	ivs stellate celli;
3	y Grolgi cells.
3 2	DEVELOPMENT OF BRAIN
3 4	TO VE LOT MET.
3	Structures formed from Neural tube are :=>
	(A) From cranial part of Neural tube => Give Rise to "Brain".
1	(+ Prosence phalon
	Mesen Cephalon
	Rhombencephalon
9	1 Millitary Challes

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* Cell Nest is charactized of > lityaline cartilage

* Largest size of charactized and seem in > Elastic cartilage

* Smallest size of charactized are seen in > White libro cartilage

eq = 9 Intervertebral dirc

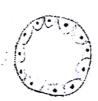
Articular disc

Memisci

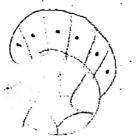
Aboutine gland Sweat gland * Bimble colled tubular type of gland; which Holocine gland > Sebaceau gland · eq = Unbranched duct. Merocrine ecorine gland = eg = Mammary gland Selous Salivary gland > eg d Parotid gland Mucous Salivary gland > Gg 7 Sublingual gland Mlxed. salivary 91and 7 Sub Mondibular glang



MUCOUS ACTINUS



SEROUS ACTINUS



MIXED ACINOS (Demilyne)

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Lymphoid bollicles are abt. in > *Thymus Hascell's corpuscles all chalor-laistig 0/14, Spleen contain Red & white Pulp & ecrement Ameride, Tonsil contains crypts & epithelium is "Stratilied Non-Kerratinized * dithelium + Lymph Node > Subscrabular Simu * X biali bladder > Simple columnar & brush border. 米 PCT => Lined by simple cuboidal & brush border Ansa Nephron = Lined by simple squamous epithelium (Loop of Henle) Groblet cells are abtim = Clophagy JL blenty in colon SubMucsal

Flands

Flands

Penhhaans Csophagus Toughest Layer of erophagus > Submucosa Lining epithelium of secreting => Simple cuboidal. Greaminal epithelium > simple cuboidal K Respiratory epithelium = Pseudo Statilized ciliated columnal X ¿ golder cells Internal elastic Laming > Characteristics of Muculas Artery.

Type of EPIPHYSIS)

1. Pressure epiphysis => Seen @ - Ossilication center.

- the ends of long bone subjected to pressure

Lieg=> Head of Humeru; Ba

Head of Fermu; aa

Condylet of tibia, aa

2. Traction epiphysis => Form dl+ bull of the Muscle
Lieg => Tubercle; a

Trochamer, a

Martoid broces; a

Tibial tuberosity.

Atavastic epiphysis > Functional In Lower Animals & degenerate
In hymnony

Li eg > Coracoid process of Scapula &

OS trigonum of Talus

Abservement ehiphysis => 9+ is an extend ehiphysis

Lieg=> Proximal and of 154 Managed bone aa

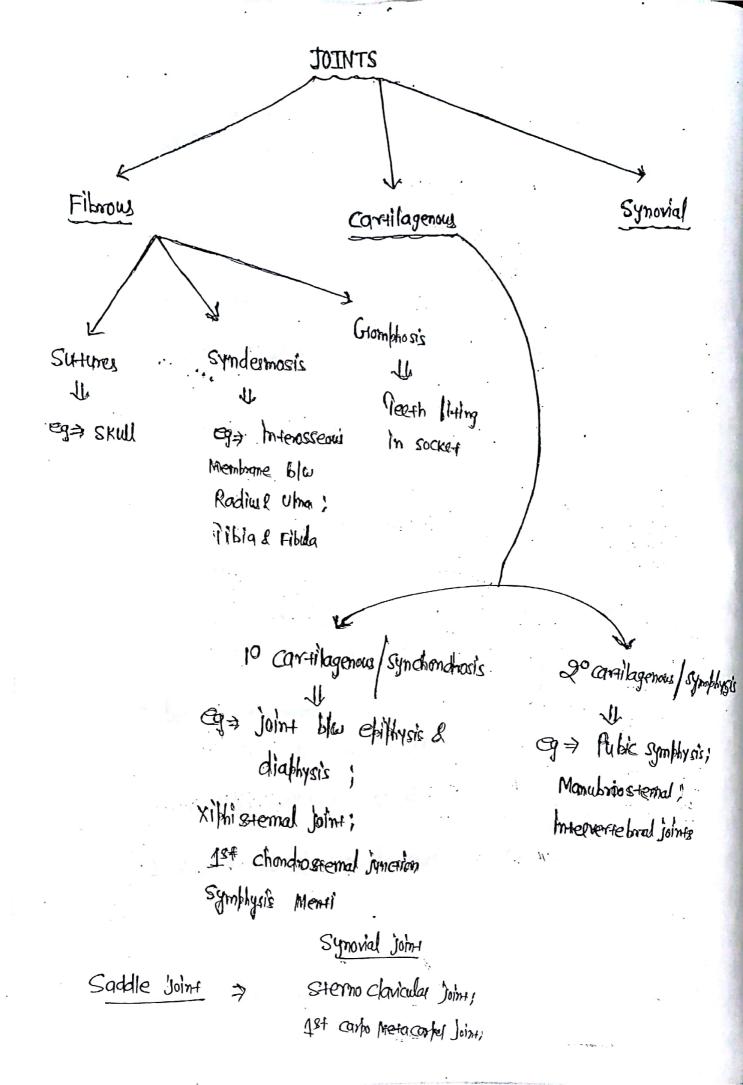
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Condylar joint => TM joint; Atlanto-occilital-joint;

Metacartophammageal Joint;

ellipsoidal joint => wist

Pivot joint => Superior & interior Radio-ulrar joint;

Atlanto-axial joint

Plane joint => Intercarpel; Inter-tarsal; Acromio-danicular j

ltinge = , Elbou, Ankle

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